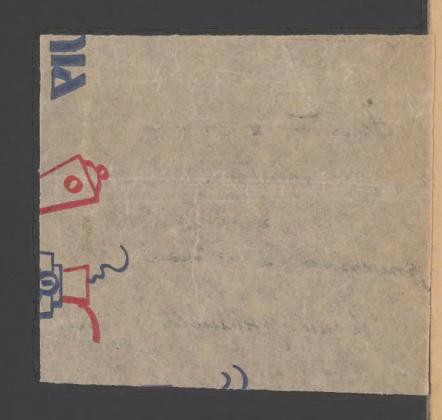


B HANDLU STANSLAWA RÜHLERA We Lwowio.

deserty sabrane 2 Jals Taire processio 2 rabines 13 Le ruroly namiles



North Hy Chinic M. Old & By Sage of South Dollar Wied. Am. 57 g. 783

M. Dung 202 & 6

Helmhotta (Who) Am. 7 p. 307 (1878)

Som Wind. A 9 p. 513

10 p 46

Hardy Journ. ph. Ch. 4 p. 305 (1900)

2. ph Ch. 30 p 385

Ho william X:

$$W = \frac{\omega}{v} \frac{\alpha n \frac{\omega}{v}}{(\alpha n \frac{\omega}{v})^{2} e^{-\alpha n \frac{\omega}{v}} \sqrt{\ln \alpha n \frac{\omega}{v}}} = \left(\frac{e}{\alpha}\right)^{\alpha n \frac{\omega}{v}} \frac{1}{\sqrt{2n \alpha n \frac{\omega}{v}}}$$

vige omorgje liesty ergetinek --

$$\overline{W} = \left(\frac{\ell}{\alpha}\right)^{\nu} \frac{1}{\sqrt{2n\nu}}$$

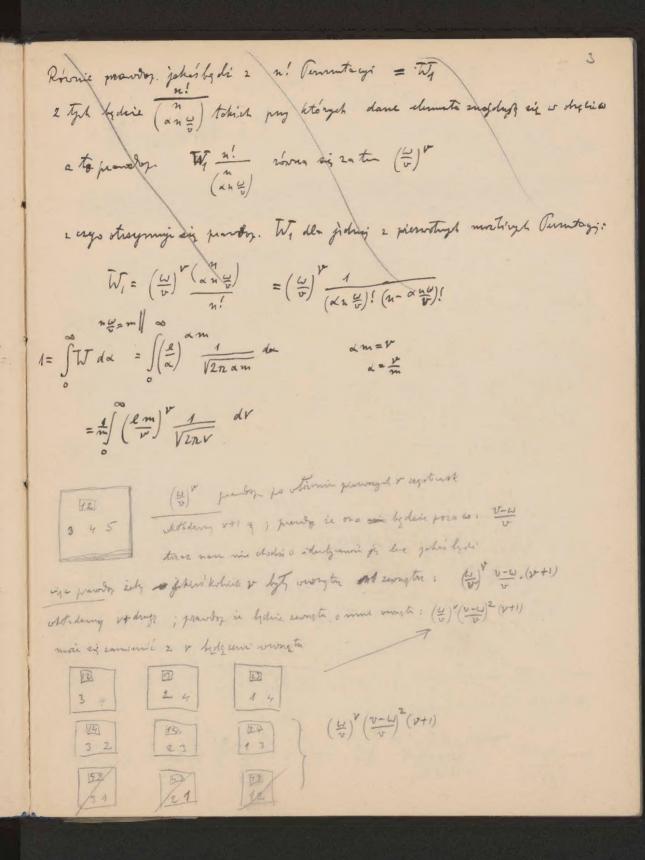
$$\frac{2}{3} = \frac{1}{4\pi v} + 1 = 1 - \frac{1}{3}a$$

$$\frac{1}{3} = \frac{1}{4\pi v}$$

$$\frac{1}{3} = \frac{1}{4\pi v}$$

$$\frac{1}{3} = \frac{1}{4\pi v}$$

$$\frac{1}{4} = \frac{1}{4\pi v}$$



N w 1 cm = 21. 10 18 prevolog se is john mm3; 21.10 No = 12.105 Oranty in so whole non = Wo zitye zie n byde we v: Wo=1 Zobora Varial & Nisting 1. 518: n= n n= \frac{\omega}{\pi} g= \frac{\omega-\omega}{\omega} $\overline{W} = \frac{n!}{\left(\frac{\omega}{v}\right)^{\nu} \left(\frac{v-\omega}{v}\right)^{n-\nu}}$ x! = AM (x) Vinx v! (n-v)! $=\frac{\left(\frac{n}{z}\right)^{n}\sqrt{2nn}}{\left(\frac{v}{z}\right)^{\nu}\sqrt{2nv}\left(\frac{n-\nu}{z}\right)\sqrt{2n(n-\nu)}}\left(\frac{\omega}{v}\right)^{\nu}\left(1-\frac{\omega}{v}\right)^{n-\nu}$ $=\frac{n}{v'(n-v)}\left(\frac{\omega}{v}\right)^{v'(n-v)}\left(\frac{\omega}{v}\right)^{v'(n-v)}$ $=\frac{n}{(n-r)^{n-r}} \frac{r}{r} \qquad = \frac{1}{\left(1-\frac{r}{n}\right)^{n-r}\left(\frac{r}{n}\right)^{r}} \sqrt{\frac{1}{n}r\left(1-\frac{r}{n}\right)}$ $= \binom{n}{ev} \frac{1}{\sqrt{v \cdot 2n}}$ $\lim_{n \to \infty} \left(1 - \frac{v}{n}\right)^n = \left(1 - \frac{v}{n}\right)^{\frac{n}{n} \cdot v} = e^{v}$

$$\overline{W} = \frac{1}{\sqrt{v}} \left(\frac{1}{\sqrt{v}} \right)^{v} \cdot \left[\right] \left(\frac{1}{\sqrt{v}} \right)^{v} = \left(\frac{1}{\sqrt{v}} \right)^{v$$

d= 1+ 5 (1+5) = 2 rs [e(1+8)] * e + 1+5 | 2nv = 2 , 2n: 1-n. 1 9: = = 1 1 1 = $\frac{\mu h}{n}$ = 11-n=h $= \mu^{n} \left(\frac{h}{n}\right)^{n} \left(\frac{q_{n}}{n-n}\right)^{n-n} \sqrt{2n} \frac{n}{n} \left(n-n\right)$ m-n= m-m-p+h = m(1-p)+h = ugth = m/m (Am) m (1 m+ h) m-m

24 1 14. EM = 1 [2 4 + 1 - . . . Dari Kulli spedajou a cury minert. : (sy one is prografy) John Imoura whith strongston?

$$\begin{aligned}
u &= A &= \frac{1}{2} + \frac$$

$$u = -\frac{1}{2} \left[\frac{1}{2} - \frac{3}{4} \frac{a}{n} - \frac{1}{4} \frac{a^3}{n^3} - \frac{3}{4} \frac{4}{n^3} \left(1 - \frac{a^4}{n^2} \right) \times \frac{1}{2} \right]$$

$$v = -c \frac{3}{4} \frac{a}{n^3} \left(1 - \frac{a^4}{n^4} \right) \times \omega$$

$$u = c \left[1 - \frac{3}{4} \frac{\alpha}{n} \left(1 + \cos^2 \theta \right) - \frac{1}{4} \frac{\alpha^3}{23} \right] - 3 \cos^2 \theta \right]$$

$$v = -\frac{3}{4} \frac{\alpha c}{n} \left[1 - \frac{\alpha^2}{n^2} \sin \theta \cos \theta \right]$$

$$v = u_{r=\alpha} + \left[\ln \rho \cdot \frac{\partial u}{\partial r} \right] + \frac{1}{2} \cos^2 \theta$$

$$\frac{\partial u}{\partial r} = c \left[\frac{3}{4} \frac{a}{n^2} \left(1 + \omega \dot{\theta} \right) + \frac{3a^3}{4n^4} \left(1 - 3\omega^2 \theta \right) \right]$$

$$= \frac{3}{4} \frac{c}{a} \left[1 + \omega \dot{\theta} + 1 - 3\omega^2 \theta \right] = \frac{3}{2} \frac{c}{a} \sin^2 \theta$$

$$= \frac{3}{4} \frac{c}{a} \left[1 + \omega \dot{\theta} + 1 - 3\omega^2 \theta \right] = \frac{3}{2} \frac{c}{a} \sin^2 \theta$$

$$\frac{\partial v}{\partial n} = -\frac{3}{4} ac \text{ sind with } \left[\left(1 - \frac{a^{-1}}{n^{-1}} \right) \frac{-1}{n^{-1}} + \frac{2a^{2}}{n^{4}} \right] = \frac{3}{4} \frac{c}{a} \left[\frac{1}{n^{2}} \frac{3a^{2}}{n^{4}} \right] = -\frac{3}{2} \frac{c}{a} \sin \theta \text{ with }$$

$$M = \frac{3}{2} \stackrel{c}{=} \sin^2 \theta \cdot \rho$$

$$V = -\frac{3}{2} \stackrel{c}{=} \sin^2 \theta \cdot \rho$$

26

$$vel_{\mu} = \sqrt{u + v} = \frac{3}{2} \frac{c}{a} \sin \theta. \rho$$

$$vel_{\mu} = -\frac{3}{2} \frac{c}{a} \sin \theta + v \cot \theta = -\frac{3}{2} \frac{c}{a} \sin \theta \rho \left(\sin^2 \theta + \omega \cdot \theta \right)$$

$$= \frac{3}{2} \frac{c}{a} \sin \theta. \rho$$

wige coty part per a blacking pointedine roundyly do mig

zoten pred eletter røvendigt, do porietetteni (w surskem pop t):

pod zotoinim er guloir varster,
mote spre i= Jus do = -1/u de de mate y more anis = -1 = = ~ B HM Sig pdp = 3p. p- / 3p dp = 9: - 9e = 3 c sin 0 4 (4e- 9i) Dy sta mail - wi I J= 2 1 = 2 2 1 = 200 i ten jel an en unterstur. 3 4 70 90 40 inst Joki nystem jegdón porstami roketek potencych il= A wo & ? & A. Har-U= 4,+ uz = M, (1, - 2, 2 M, wrd is, c mili 42 = 3 = (9e-9:) West | 5, - x2 to bydrie wysle U = 3 = 4nd (9e-9i) = 1000 ... + 1 21 Ja279 do Ja= 2 injta £i(llo-do) = 3 RC P(P) 29

$$W = \begin{cases} 2\pi a \cos \theta & \frac{3}{2} \leq \frac{q_{-}q_{+}}{q_{+}} \cos \theta & \frac{3}{2} \leq \frac{q_{-}q_{+}}{q_{+}} \cos \theta & \frac{3}{2} \end{cases}$$

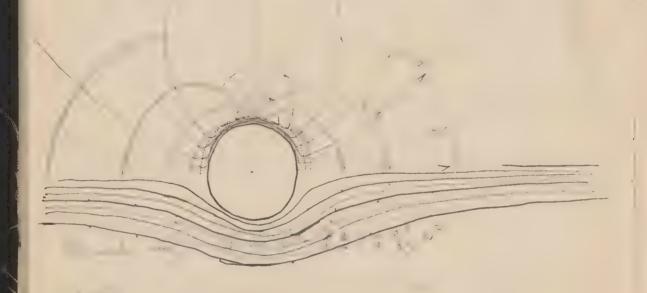
$$= \begin{cases} 4\pi \ln \frac{3}{2} \leq \frac{1}{4\pi} + \frac{1}{4\pi}$$

$$d\left(\frac{\omega^{2}}{n^{3}}\right) = \left(\frac{2\omega}{n^{3}} - \frac{3\omega^{3}}{n^{5}}\right) d\omega + \frac{3\omega^{2}}{n^{5}} dx$$

$$= \frac{\omega}{n^{5}} \left[(2x^{2} + 2\omega^{2} - 3\omega^{2}) d\omega - 3\omega \times dx \right]$$

$$= \frac{\omega}{n^{5}} \left[4m(2x^{2} - \omega^{2}) d\omega - 3\omega \times dx \right]$$

Tige livie pagh : 43 = const



$$1 - \frac{3}{4} \frac{ca}{23} \left(1 - \frac{a^2}{23} \right) \times \omega$$

$$- \frac{1}{2} \frac{ca}{23} \left(1 - \frac{a^2}{2} \right) \times \omega$$

$$- \frac{1}{2} \frac{ca}{23} \left(1 - \frac{a^2}{2} \right) \times \omega$$

$$= \frac{\omega}{x + \frac{4 n^3}{3 a x}} \frac{1 - \frac{3}{4} \frac{a}{n^2} - \frac{1}{4} \frac{a^3}{n^3}}{1 - \frac{a^2}{n^2}} = \frac{\omega}{x - \frac{4 n^3 - 3 a n^2 - a^3}{3 a x \left(1 - \frac{a^2}{n^2}\right)}}$$

$$\frac{m}{6n^2} = 1 - \frac{3}{2} \frac{a}{2} + \frac{1}{2} \frac{a^3}{2^3}$$

lx=o r= w	m = 1 = 2 = + 1 = 3	m=1	m= 4	m= 1/9
2 2 1 a	± = 0			
1 1 2 × 3 a	二十十十五年 一	1号=おこと	1'5	0.83
22 2 4	= 1- = = = = = = = = = = = = = = = = = =		6.6	0.6
2 = 3 a	= 1-3 5+2 7 = 14	1'4	0.7	0.47
2= 44	= :- = + + 1 64 = 127	1.25	0-63	0 41

m=1

Vier preplyn's pur masi e= P 6 (91-40) J= ENL Oraco = EJ = P2 = 6. 9: -40) = U. 1(9: -40) 6P 1 100 010 5.10h J 4. () ja issuris dodatkove, sporodovane dekte. Dr = 49: - 90, 6 P Ny. 4: -4 = 4 V = 4 I down mighter to about Convertions to:

She predu = C. 411 Sq. q = & the time = the time was such as the state of the time to 4.6.10. 10/6 1 (est) 4.6.10 (401) 3.1. 3.24. A. 2.

I y . = 161. MMM. 0 = 4.108 = 4.108 = 4.108 = 4.103 (CSS) k= 0.018 472 0018 2 2 = 4.10 T. 106.13 E= 109 = 4 .. 28 by-1 My 6 4 = 10 10 -4 0 = 10 05 9n. 12. 10 Ct 03:= 1/2/1/81 = 072 1 0.03 - 1 1.00x 2 42 is 92.22.0.18 = 92.14 = 49 1016 4/2.1. = 2. 2 = 6 40. 178 . 2.113 = 3.14. 2.11 = 3/1.65 = 4 4:- 4= 4 V = 4 (CSS) P = 4-10 6 $6 = \frac{4}{9} \cdot 10^{\frac{7}{4}} = 4.6 \cdot 10^{-8}$ 3 = 0.010 R= 0.2294 mm = (300) 4 300. 0.0224.8.14, 2.0.01 $= \left(\frac{4}{3.14.3.40^{\circ}23}\right)^{2} 21.3.10^{-4} = \frac{4}{2.2} 1.2.3.10^{-4} = \frac{4}{7.27}.1.3.10^{-4}$

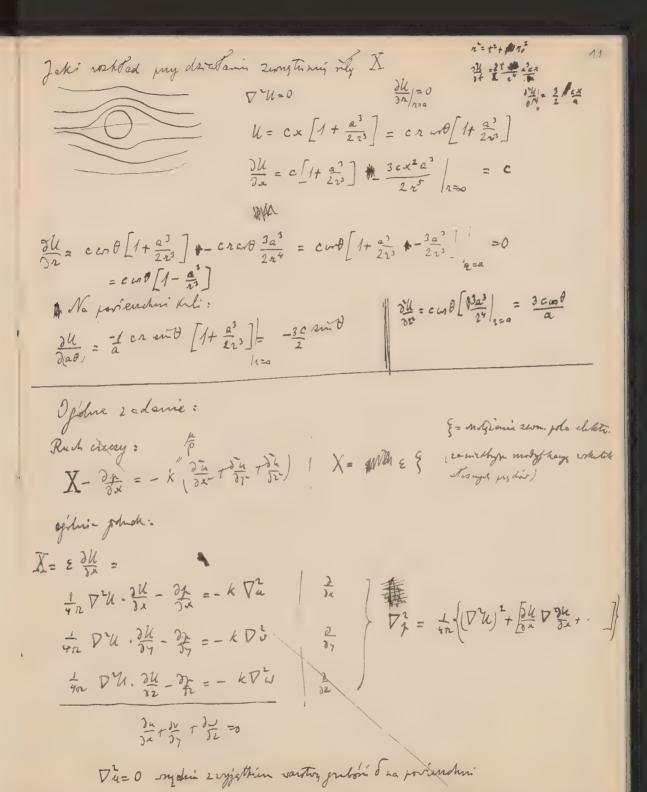
Opin when
$$\frac{3a}{2}$$
 ($\frac{9a-9}{2}$ $\frac{1}{2}$ $\frac{9a-9}{2}$ $\frac{1}{2}$ $\frac{9a-9}{2}$ $\frac{1}{2}$ $\frac{9a-9}{2}$ $\frac{1}{2}$ $\frac{9a-9}{2}$ $\frac{1}{2}$ $\frac{9a-9}{2}$ $\frac{1}{2}$ $\frac{1$

$$N_{f}$$
. opén de = open timber jint:
 $\frac{1}{4.300.511}$ $\frac{2}{200.511}$ $\frac{4.6.10^{12}}{201.00}$ = $1 = (0.942)^{2}$ $\frac{4.6.10^{12}}{2^{2}}$

$$a = \frac{4.6}{0.88} \cdot 10^{12} = 5.10^{12}$$
 $a = \frac{4.6}{0.88} \cdot 10^{12} = 5.10^{12}$
 $a = \frac{1.10}{0.88} \cdot 10^{12} = 5.10^{12}$

Roby a Limie U2 M Cont otrigue en prod is hierman is: $J_2 = 2\lambda \frac{M_{in}\theta}{i3}$ ne parimetrie $J_a = 2\lambda \frac{M_{in}\theta}{a^3}$ estimately pred of 000 do 0: Jenemed de 22 Mars = 4 mily jord and de $= \frac{2\pi\lambda M}{a} \sin^2\theta$ to musi prestie doi pres romoliside of colon utji mi, eg is, pro i m th, sir inous inthe : 2nd M sin t = d M in t pil to maby ion 3 & sit Pe-Pi to min is M = 3 BE Perfi vote: 1= 3 uc ye-ri unt 32 3 c re-r. 10 b Praca colharite: W = 2 / 2 ansto 20. Uas 2 das = 4 an 3 ha re- gi. 2 3c ye. gi f with at do W= 1/2 3c(4c-4) 2 = $\frac{19c^2(9e-9)^2}{8\pi a\lambda}$ $\frac{1}{3} = \frac{3c^2(9e-9)^2}{8\pi a\lambda}$ 16 22 yh = (42) 2/ yhar

Johi besprisedny oglyr Jadrukins elektr.? Juli voime pot dans to Tadmek prop. at 2 ste site ~ area nejmorgine & malive = 29 · i f ~ a2 zote pry sumogresnin segrti sek az le sumi jægg og si gly. Et lovede s ra huly orgin ni more. Imorij ie ingelskert with a tim i knuk privang varnet so (i) (i) (inage: 1/2 2/1-Pi=- le zatur ylyr no zeongtu =0 I pola clebta serge tunen: Edyly if: i fe by a slow evoy came toby skutck by =0 tok jednak le pa hjohn mat dji nois s jednige Kiernola le u droje $\frac{\partial \mathcal{U}}{\partial y} = -\frac{3}{2} \frac{(\sqrt{2})^3 xy}{2^5}$ $\frac{\partial \mathcal{U}}{\partial x} = -\frac{3}{2} \frac{(\sqrt{2})^3 xy}{2^5}$ $\frac{\partial \mathcal{U}}{\partial x} = -\frac{3}{2} \frac{(\sqrt{2})^3 xy}{2^5}$ Dugh = 3 UDuj- UDigh かく(なんしいール)= しかられかい) 34 ()= UD20 - LD2 | 24. n=a 34 = 3 c 1- x2



When was Derh porise husbrych:

$$\frac{\partial \mathcal{U}}{\partial x^2} = \frac{\partial}{\partial x} \left[\cos \theta \left[1 - \frac{e^3}{x^3} \right] \right]$$

$$= c \cot \theta \frac{3e^3}{x^4} \Big|_{x=a} = \frac{3 \cos \theta}{a}$$

$$\frac{\partial^3 \mathcal{U}}{\partial x^3} = -c \cot \theta \frac{12e^3}{x^5} \Big|_{x=a} = -\frac{12 \cot \theta}{a^2}$$

$$2 \cot \theta \left[\frac{12e^3}{x^5} \right] = -\frac{12 \cot \theta}{a^2}$$

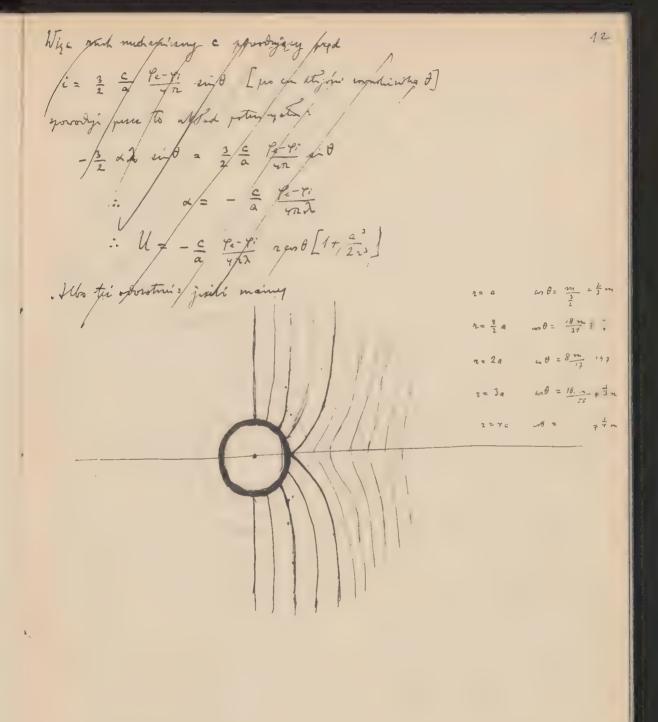
$$2 \cot \theta \left[\frac{12e^3}{x^5} \right] = -\frac{12e^3}{a^2}$$

$$2 \cot \theta \left[\frac{12e^3}{x^5} \right] = -\frac{e^3}{1.2} \left[\frac{3e^3}{x^5} \right] = -\frac{e^3}{1.2} \left[\frac{3e^3}{x^5} \right]$$

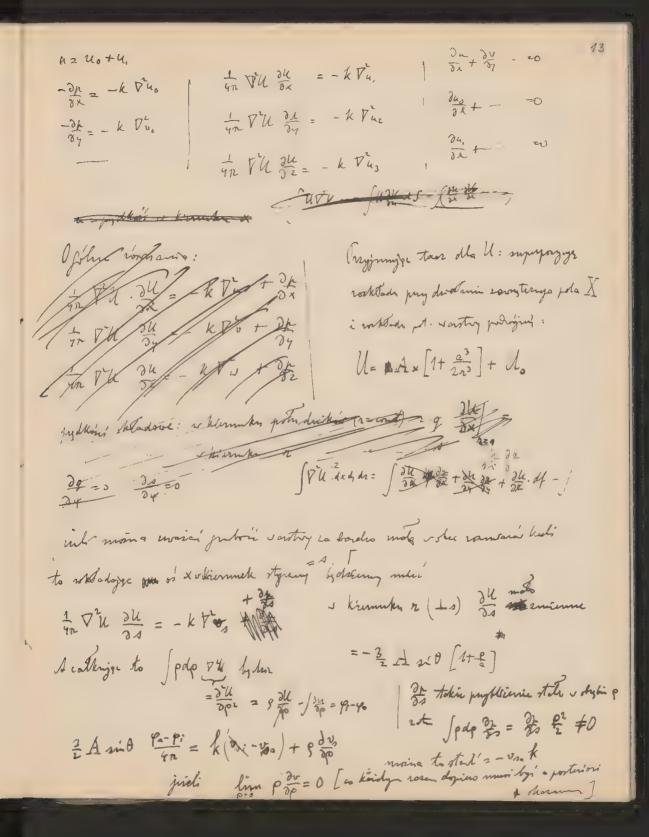
$$= \frac{e^2}{1.2} \frac{3 \cot \theta}{a} = -\frac{e^3}{1.23} \frac{12 \cot \theta}{a^2} = -\frac{e^$$

Figd v Kinnske stjærge (pro em obook romelierike):
$$\lambda \frac{\partial U}{\partial (z\theta)_{z=unt}} = \frac{\lambda}{z} \frac{\partial U}{\partial \theta} = -\lambda c \sin \theta \left[1 + \frac{\alpha^2}{2z^3} \right]$$

$$= \frac{\lambda}{z} \lambda c \sin \theta \left[1 + \frac{\alpha^2}{\alpha^2} \right]$$



Wife Wer'erin Zadamin: Endin's poter you U AU 20 a na powiewhoi Keli dom vortosti dle Tr Control pigd 2 kel proplyro do creaz 2 dang site 1 = 1 = 2 = 1 (2 - 4) const End pru coly rovolvinite: 20 i) = \$ \$ \$ \$ 3 c (9c-9i) sin'd risinica dJ = \$\frac{3c}{2}(\varphi = \varphi) nt cont dt podrolos pur portucking: 202 550 do. 1 satismie vote min ubjeva v Krombe wounding po cur? $\frac{3c}{4\pi} \frac{\varphi_{-} - \varphi_{-}}{a^{2}} \cos \theta = \sqrt{\frac{\partial \mathcal{U}}{\partial z_{2}}}$ Wize radons radin' Il den na kuli plas pun wommek (The = m with a work, now tokin U girl my : (julgini jundte): U= Mart 2 (3h) = - 22 Mart = 3e 9e-4. 00 M= - 3ca Ye- 4: 2 oten: U= - 3CR Pe-pi and



To Anori sig do warter portuchinovij, bo v ren in prestremi KTu = 2 etc. Ladanie lydrie styl and under web ciuse a torium ktas na porimhi Kuli netris varmuk: $v_s/=\frac{3}{4} Asi \theta \frac{9i-9}{4i}$ tj. u=== 3 A 9:-9. (1-x2) widned cony = yx 2. H w t riy = Tituga oznaný: $u = \frac{M}{2\mu R^3} (x^2 + \dot{x}^2) + \frac{N}{R^5} (x^2 - 3x^2) + c^{-\frac{1}{2}} (1 - \frac{\dot{x}^2}{c^2})$ v = M xy - 3 N xy $W = \frac{M}{2\mu} x^3 x^2 - \frac{3N}{x^5} x^2$ $\frac{M}{2\mu e^3} \left(e^2 + \chi^2 \right) + \frac{N}{a^5} \left(e^2 - 3\chi^2 \right) + C = -\frac{3}{2} \frac{A}{A} - \left(1 - \frac{\chi^2}{a^2} \right)$ de r=a: $\frac{M}{2\pi a^{\frac{1}{2}}} - \frac{3N}{a^{\frac{3}{2}}} = \frac{3}{2}A$ M + N + = - = A 4M + 3 1 c = -2 = A-4N + 1c = -3 A...

$$M = -\frac{3}{2} \frac{1}{4} \frac{4^{2} - 4^{2}}{4n} + 10$$

$$M = -\frac{3}{2} \frac{1}{4} \frac{4^{2} - 4^{2}}{4n} + 10$$

$$M = -\frac{3}{4} \frac{1}{4} \frac{4^{2} - 4^{2}}{4n} \frac{1}{n^{2}} \frac{1}{4n} - \frac{3}{4} \frac{1}{n^{2}} \frac{4^{2} - 4^{2}}{n^{2}} \frac{1}{n^{2}} \frac{1}{n^{2}}$$

$$M = -\frac{3}{4} \frac{1}{4} \frac{4^{2} - 4^{2}}{4n} \frac{1}{n^{2}} \frac{$$

John overtime by him with kill is toking acres namehoring?

Dajmy is to see of these synthine mit kill 2 prytholis? Mr 9

to overspayer to prytholis of smytholigo bydrowy words radamie:

kula namehoma is chosy ktora is neigh, me rach - 9

A ma paramolus kult 2/2== 3 A x & 9:70

i cho'ntime wypadhope = 0

Cho dis w'y o arainemis p.

$$ux + vy + v = \frac{M}{2\mu n} \left[x_{1}^{(n+n)} + xy^{2} + x^{2} \right] + \frac{N}{n^{3}} \left(nx - 3x^{3} - 3xy^{2} - 3xx^{2} \right) + cx$$

$$= \frac{M}{\mu} \frac{x}{n} - \frac{2N}{2^{3}} \frac{x}{n^{3}} + cx$$

$$= \frac{M}{\mu} \left(\frac{1}{n} + \frac{x^{2}}{n^{3}} \right) + \frac{N}{j} \left(\frac{1}{n^{3}} - \frac{3x^{2}}{n^{3}} \right) + tc$$

$$= \frac{M}{2\mu} \left(\frac{1}{n} + \frac{x^{2}}{n^{3}} \right) + \frac{N}{j} \left(\frac{1}{n^{3}} - \frac{3x^{2}}{n^{3}} \right) + \frac{1}{m}$$

$$+ \left(\frac{M}{2\mu} \frac{1}{n^{3}} - \frac{3N}{n^{3}} \right) \frac{1}{n^{3}} \frac{1}{n^{3}} \frac{1}{n^{3}} + 2\frac{1}{n^{3}} \frac{1}{n^{3}}$$

$$= \frac{M}{2\mu} \left[-\frac{1}{n} - \frac{3x^{2}}{n^{3}} + \frac{2x^{2}}{n^{3}} \right] + 3N \left[-\frac{1}{n^{3}} + \frac{5x^{2}}{n^{3}} - \frac{2x^{2}}{n^{3}} \right]$$

$$+ \frac{M}{n^{3}} \left[-\frac{M}{n^{3}} + \frac{x^{2}}{n^{3}} \right] - \frac{3N}{n^{3}} \left[-\frac{1}{n^{3}} - \frac{3x^{2}}{n^{3}} \right] - cx$$

$$= -\frac{M}{n^{3}} \left[\frac{1}{n^{3}} + \frac{x^{2}}{n^{3}} \right] - \frac{4N}{n^{3}} \left[\frac{1}{n^{3}} - \frac{3x^{2}}{n^{3}} \right] - cx$$

$$-\frac{1}{n^{3}} \left[\frac{1}{n^{3}} + \frac{x^{2}}{n^{3}} \right] - \frac{2N}{n^{3}} \left[\frac{1}{n^{3}} - \frac{3x^{2}}{n^{3}} \right] - cx$$

$$-\frac{1}{n^{3}} \left[\frac{1}{n^{3}} - \frac{x^{3}}{n^{3}} - \frac{3x^{2}}{n^{3}} \right] - cx$$

$$-\frac{1}{n^{3}} \left[\frac{1}{n^{3}} - \frac{3x^{2}}{n^{3}} \right] - \frac{3x^{2}}{n^{3}} \right] - cx$$

$$-\frac{1}{n^{3}} \left[\frac{1}{n^{3}} - \frac{x^{3}}{n^{3}} - \frac{3x^{2}}{n^{3}} \right] - \frac{3x^{2}}{n^{3}} \right] - cx$$

$$-\frac{1}{n^{3}} \left[\frac{1}{n^{3}} - \frac{3x^{2}}{n^{3}} - \frac{3x^{2}}{n^{3}} \right] - \frac{3x^{2}}{n^{3}} \right] - cx$$

$$-\frac{1}{n^{3}} \left[\frac{1}{n^{3}} - \frac{3x^{2}}{n^{3}} - \frac{3x^{2}}{n^{3}} - \frac{3x^{2}}{n^{3}} \right] - cx$$

$$-\frac{1}{n^{3}} \left[\frac{1}{n^{3}} - \frac{3x^{2}}{n^{3}} - \frac{3x^{2}}{n^{3}} - \frac{3x^{2}}{n^{3}} \right] - cx$$

$$-\frac{1}{n^{3}} \left[\frac{1}{n^{3}} - \frac{3x^{2}}{n^{3}} - \frac{3x^{2}}{n^{3}} - \frac{3x^{2}}{n^{3}} \right] + cx$$

$$-\frac{1}{n^{3}} \left[\frac{1}{n^{3}} - \frac{3x^{2}}{n^{3}} - \frac{3x^{2}}{n^{3}} - \frac{3x^{2}}{n^{3}} \right] - cx$$

$$-\frac{1}{n^{3}} \left[\frac{1}{n^{3}} - \frac{3x^{2}}{n^{3}} - \frac{3x^{2}}{n^{3}} - \frac{3x^{2}}{n^{3}} - \frac{3x^{2}}{n^{3}} - \frac{3x^{2}}{n^{3}} \right] + cx$$

$$-\frac{1}{n^{3}} \left[\frac{1}{n^{3}} - \frac{3x^{2}}{n^{3}} - \frac{3x^$$

$$\begin{aligned}
& \uparrow x = - \uparrow \cdot \frac{x}{a} - \frac{6}{6} \frac{N_{x}}{a} - \frac{3}{2} \frac{x^{2}}{a^{2}} \left[\frac{1}{6} \frac{M}{a} - \frac{6}{6} \frac{N_{x}}{a^{2}} \right] \\
& = - \mu_{0} \frac{x}{a} + \frac{3}{2} \frac{1}{2} \frac{3}{4} \frac{A}{\mu^{2}} \frac{Y_{0} - Y_{1}}{y_{0}} + c \right] - \frac{3}{4} \frac{x^{2}}{a^{2}} \frac{1}{2} \frac{A}{\mu^{2}} \frac{Y_{0} - Y_{1}}{y_{0}} \\
& = - \mu_{0} \frac{x}{a} + \frac{3}{2} \left[\frac{3}{2} \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} + \frac{c}{a} \right] - \frac{1}{4} \frac{x^{2}}{a^{2}} \frac{A}{y_{0}} \frac{Y_{0} - Y_{1}}{y_{0}} \\
& = - \mu_{0} \ln \theta + \frac{3}{2} \left[\frac{3}{2} \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} + \frac{c}{y_{0}} \right] - \frac{6}{2} \ln \theta \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} \\
& = - \mu_{0} \ln \theta + \frac{3}{2} \left[\frac{3}{2} \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} + \frac{c}{y_{0}} \right] - \frac{6}{2} \ln \theta \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} \\
& = - \mu_{0} \ln \theta + \frac{3}{2} \left[\frac{3}{2} \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} + \frac{c}{y_{0}} \right] - \frac{6}{2} \ln \theta \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} \\
& = - \mu_{0} \ln \theta + \frac{3}{2} \left[\frac{3}{2} \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} + \frac{c}{y_{0}} \right] - \frac{6}{2} \ln \theta \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} \\
& = - \mu_{0} \ln \theta + \frac{3}{2} \left[\frac{3}{2} \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} + \frac{c}{y_{0}} \right] - \frac{6}{2} \ln \theta \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} \\
& = - \mu_{0} \ln \theta + \frac{3}{2} \left[\frac{3}{2} \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} + \frac{c}{y_{0}} \right] - \frac{6}{2} \ln \theta \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} \\
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& = - \mu_{0} \ln \theta + \frac{3}{2} \left[\frac{3}{2} \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} + \frac{c}{y_{0}} \right] - \frac{6}{2} \ln \theta \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} \\
& = - \mu_{0} \ln \theta + \frac{3}{2} \left[\frac{3}{2} \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} + \frac{c}{y_{0}} \right] - \frac{6}{2} \ln \theta \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} \\
& = - \mu_{0} \ln \theta + \frac{3}{2} \left[\frac{3}{2} \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} + \frac{c}{y_{0}} \right] - \frac{6}{2} \ln \theta \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} \\
& = - \mu_{0} \ln \theta + \frac{3}{2} \left[\frac{3}{2} \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} + \frac{c}{y_{0}} \right] - \frac{6}{2} \ln \theta \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} \\
& = - \mu_{0} \ln \theta + \frac{3}{2} \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} + \frac{c}{y_{0}} \frac{A}{a} \frac{Y_{0} - Y_{1}}{y_{0}} \\
& = - \mu_{0} \ln \theta + \frac{3}{2} \frac{A}$$

2). prop. A

3). order. prop pe 2 Tem zybenj przy podre temp

$$C = \frac{1}{4} \frac{1}{4} \qquad i = \frac{1}{4} \lambda \qquad J = \frac{1}{4} \lambda q$$

$$= \frac{1}{4} \frac{1}{4} \qquad q = \frac{1}{4} q + \frac{1}{4}$$

 $V_{\nu}-V_{\nu} = N_{\nu} f$. $f^{\nu} = \frac{4}{300}$ $\int_{0}^{2} \frac{1}{31} \left(\frac{1}{500} \right)^{2} = \frac{1}{34 \cdot 3 \cdot 5} \int_{0}^{2} \frac{1}{34 \cdot 3 \cdot$

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$$v = 2\left$$

Then the: $\frac{\partial}{\partial x} \left(\frac{\partial u}{\partial x^2} \right) + \frac{\partial}{\partial y} \left(\frac{\partial u}{\partial x^2} \right) + \frac{\partial}{\partial y} \left(\frac{\partial v}{\partial x^2} \right) + \left(\frac{\partial^2 u}{\partial x^2} \right) = 0$ $\frac{\partial}{\partial x} \left(\frac{\partial^2 u}{\partial x^2} \right) + \frac{\partial}{\partial y} \left(\frac{\partial^2 u}{\partial x^2} \right) + \left(\frac{\partial^2 u}{\partial x^2} \right) = 0$

 $\nabla u = 2 \left[\frac{\partial^{\perp}}{\partial x^{2}} \left(\frac{\partial u}{\partial x^{2}} \right) + \frac{\partial^{\perp}}{\partial y^{2}} \left(\frac{\partial u}{\partial x^{2}} \right) \right] + \frac{2^{2}}{2} \left[\frac{\partial^{\perp}}{\partial x^{2}} \left(\frac{\partial u}{\partial x^{2}} \right) + \frac{\partial^{\perp}}{\partial y^{2}} \left(\frac{\partial^{\perp}}{\partial x^{2}} \right) \right] + \left(\frac{\partial^{\perp}}{\partial x^{2}} \right)$ which the similar and the series of th

$$\frac{1}{4n} \left[\begin{array}{c} \frac{1}{4n} \left[\begin{array}{c} \frac{1}{4n} \right] \frac{3u}{3x} = -k \\ \frac{1}{4n} \left[\begin{array}{c} \frac{1}{4n} \right] \frac{3u}{3x} = -k \\ \frac{1}{4n} \left[\begin{array}{c} \frac{1}{4n} \right] \frac{3u}{3x} = -k \\ \frac{1}{4n} \left[\begin{array}{c} \frac{1}{4n} \right] \frac{3u}{3x} = -k \\ \frac{1}{4n} \left[\begin{array}{c} \frac{1}{4n} \right] \frac{3u}{3x} = -k \\ \frac{1}{32} \left[\begin{array}{c} \frac{3u}{3x} \right] \frac{3u}{3x} = 0 \end{array}$$

$$\left[\begin{array}{c} \frac{3u}{3x} \left(\begin{array}{c} \frac{3u}{3x} \right) \frac{3u}{3x} = 0 \\ \frac{3u}{3x} \left(\begin{array}{c} \frac{3u}{3x} \right) \frac{3u}{3x} = 0 \\ \frac{3u}{3x} \left(\begin{array}{c} \frac{3u}{3x} \right) \frac{3u}{3x} = 0 \end{array} \right]$$

$$u = \left(\begin{array}{c} \frac{3u}{3n} \right) \left(\begin{array}{c} \frac{3u}{3n} \right) \left(\begin{array}{c} \frac{3u}{3n} \right) \frac{3u}{3x} = 0 \\ \frac{3u}{3x} \left(\begin{array}{c} \frac{3u}{3x} \right) \frac{3u}{3x} = 0 \end{array} \right]$$

$$u = \left(\begin{array}{c} \frac{3u}{3n} \right) \left(\begin{array}{c} \frac{3u}{3n} \right) \left(\begin{array}{c} \frac{3u}{3n} \right) \frac{3u}{3x} = 0 \end{array} \right]$$

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$$u = \left(\begin{array}{c} \frac{3u}{3n} \right) \left(\begin{array}{c} \frac{3u}{3n} \right) \left(\begin{array}{c} \frac{3u}{3n} \right) \frac{3u}{3n} = 0 \end{array} \right]$$

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$$u = \left(\begin{array}{c} \frac{3u}{3n} \right) \left(\begin{array}{c} \frac{3u}{3n} \right) \left(\begin{array}{c} \frac{3u}{3n} \right) \frac{3u}{3n} = 0 \end{array} \right]$$

$$u = \left(\begin{array}{c} \frac{3u}{3n} \right) \left(\begin{array}{c$$

Rostory radami v

$$\begin{pmatrix}
-\frac{\partial \mu}{\partial x} = \mu \nabla u_0 \\
-\frac{\partial \mu}{\partial y} = \mu \nabla u_0
\end{pmatrix}$$

$$\begin{pmatrix}
-\frac{\partial \mu}{\partial y} = \mu \nabla u_0 \\
-\frac{\partial \mu}{\partial z} = \mu \nabla u_0
\end{pmatrix}$$

$$\begin{pmatrix}
-\frac{\partial \mu}{\partial z} = \mu \nabla u_0 \\
-\frac{\partial \mu}{\partial z} = \mu \nabla u_0
\end{pmatrix}$$

tylko fe (n+An)

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Winny tylko Tyle ie /2 pdp = 4-4:

$$\int \frac{\partial u}{\partial x} e^{-\frac{1}{2}} de^{-\frac{1}{2}} = \frac{\partial e}{\partial y} \cdot e^{-\frac{1}{2}} - \int \frac{\partial e}{\partial y} de^{-\frac{1}{2}} = \frac{\partial e}{\partial y} \cdot e^{-\frac{1}{2}} =$$

$$2\left[\frac{3\nu}{52}\right] + 2\left[\frac{3\nu}{522}\right] - \left[\frac{3\nu}{52} + \frac{2}{\nu}\left(\frac{3\nu}{52}\right)\right]$$

Vos vertreg Mkh, hydrie

curl curl y = V dis y - T's =0 curls = VA = This Vr-Vile the micken worm ist you rate soo VA20

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u, v, U, p,

$$\frac{\partial u}{\partial x} + v \frac{\partial u}{\partial x} + v \frac{\partial u}{\partial x} = u, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + v, \frac{\partial u}{\partial x} +$$

$$\frac{\partial L}{\partial x} = -\frac{\partial U}{\partial y} - \frac{\partial W}{\partial z}$$

$$\left(v\frac{\partial u}{\partial y} - u\frac{\partial v}{\partial y}\right) + \left(u\frac{\partial u}{\partial z} - u\frac{\partial u}{\partial z}\right) = -$$

$$u\frac{\partial u}{\partial x} + v\frac{\partial u}{\partial y} + v\frac{\partial u}{\partial z} = \frac{\partial (u^2)}{\partial x} + \frac{\partial (uv)}{\partial y} + \frac{\partial (uv)}{\partial z} - u\frac{\partial v}{\partial y} - u\frac{\partial v}{\partial z}$$

$$= +u\frac{\partial u}{\partial x} = \frac{1}{2}\frac{\partial (u^2)}{\partial y}$$

Pornanio I rander barrier inexto terms Loudayend arove; n.f. ruch Kolony u=-W # v= W x du = yxdo 24 = p + 12 2x 3 = y (2 de - x de + x de) Sign of the first of the state 3 de 4 - 43 de + 43 de It = x dr $\frac{x}{n} \frac{dx}{dx} = -y \left[\frac{3}{n} \frac{dy}{dx} + \frac{dy}{dx} \right] \times$ of = m Du to dr = x[2 dy + dr] y Intej tylko poho miln

Strong they do have dynnic harm a viruy there:

$$\begin{cases}
S = 2 \left[A \sin \frac{k_{AX}}{2} + A_{A} \cos \frac{k_{AX}}{2} + B_{A} \cos \frac{k_{AX}}{2}\right] \times \left(k_{A} \cos t + D_{A}\right) \\
S = 2 \left[A \sin \frac{k_{AX}}{2} + A_{A} \cos \frac{k_{A} \cos t_{A}}{2} + B_{A} \cos t_{A}\right] \times \left(k_{A} \cos t + D_{A}\right) \\
S = 2 \left[A \sin \frac{k_{AX}}{2} + A_{A} \cos \frac{k_{A} \cos t_{A}}{2} + B_{A} \cos t_{A}\right] \times \left(k_{A} \cos t_{A}\right) \times$$

$$\frac{\partial k}{\partial x} = \mu \quad \forall u \qquad | \frac{\partial x}{\partial x} = \mu \quad \forall u, \qquad | \frac{\partial x}{\partial x} = \mu \quad \nabla (u - u)$$

$$\frac{\partial k}{\partial y} = \mu \quad \forall u \qquad | \frac{\partial x}{\partial x} = \mu \quad \nabla (u - u)$$

$$\frac{\partial k}{\partial y} = \mu \quad \forall u \qquad | \frac{\partial x}{\partial x} = \mu \quad \nabla (u - u)$$

$$\frac{\partial k}{\partial y} = \mu \quad \nabla u \qquad | \frac{\partial k}{\partial y} = \mu \quad \nabla (u - u)$$

$$\frac{\partial k}{\partial x} = \mu \quad \nabla u \qquad | \frac{\partial k}{\partial x} = \mu \quad \nabla (u - u)$$

$$\frac{\partial k}{\partial x} = \mu \quad \nabla u \qquad | \frac{\partial k}{\partial x} = \mu \quad \nabla (u - u)$$

$$\frac{\partial k}{\partial x} = \mu \quad \nabla u \qquad | \frac{\partial k}{\partial x} = \mu \quad \nabla u \quad | \frac{\partial k}{\partial x} = \mu \quad \nabla u \quad | \frac{\partial k}{\partial x} = \mu \quad | \frac{\partial$$

We wastrach white pole. frax = - S & Du dx Cosmini merlon =+1 / 32 34 dx = $=\frac{1}{8\pi}\left(\frac{\partial \mathcal{U}^2}{\partial x_1}\right)^2=-\frac{1}{8\pi}\left(\frac{\partial \mathcal{U}^2}{\partial x_2}\right)^2$ Eastepinger pour vontag porte. pax= 22 62 $\frac{\partial \mathcal{U}}{\partial x} = \frac{\mathcal{U}_2 - \mathcal{U}_1}{5} = -4\pi6$ Try playings villy Kollrand. pro 1 cm : 13 Hokrof. = 13. 10 6 Coulut Vels 6 = 13. 10° Coul. = 13. 10°. 3. 10° (eat) = 39. 10° = 4.10° tax= 22 (4.10°) = 2.32.16.10° = 10° Dy_= 1 Atmosf.:

Desa volce sjobostove; veryturny poursejty sig kiunk X John open ? ular de = west In = Cdr и-и, = с год r 1-4, = - Ty 1/2 / 2 / 2 34 + 30 Na notodny powieschnist povimo by: $X_{\gamma} = Y_{\gamma} = Z_{\gamma} = 0$ 2 stem: p - 2 m [2 y] = 0 o must by = 0 w to suit to 200, p=0 かべてかりてき =0 34 + 30 =0 (3u =0 いらうきゃ 34 + 2v =0 $\left(\frac{\partial \omega}{\partial y}\right) = 0$ wallis Imymiaron pupilad: W=0

Fragher on a trong : mugh durges to the energy kind o kumber X n 2n = - 本立 - - (2n + 3n) u de + de = - de - n di + dis) } considéré i vergé ty les popus, かれナガリーの warmach no fortunden': 1 = 0 the Jogot ony dais 1 =0 Uplanne protestion 42 9 v work med est v zawe dtoe $u\frac{\partial u}{\partial x} + v\frac{\partial u}{\partial y} = v\frac{\partial u}{\partial y} - u\frac{\partial v}{\partial y} = v\frac{\partial}{\partial y}(\frac{v}{v})$ $u\frac{\partial v}{\partial x} + v\frac{\partial v}{\partial y} = u\frac{\partial v}{\partial x} - v\frac{\partial u}{\partial x} = u^2\frac{\partial}{\partial x}\left(\frac{v}{u}\right) = -u^2\frac{\partial}{\partial x}\left(\frac{u}{v}\right)$ $\Delta^2 f =$

Ruch Kuli soury 2 storgamin pon = 1 10 whety myst way

new to dery to war

new to another funding por elpas inter. I = pració + pry John po prijoin tels partoni roznicano elektri? 4=- = (1- 3 2 + 2 2) w2 2 = a+ S W = a+ S $y = -\frac{1}{2}\left[1 - \frac{3}{2}\left(1 - \frac{5}{a}\right) + \frac{1}{2}\left(1 - \frac{35}{a}\right)\right] \left(1 + \frac{25}{a}\right)$ =- == == [1-] (1+] + 1 (+]] (+] $=-\frac{c_0}{2}\left[\left(1+\frac{c_0}{a}\right)^2-\frac{2}{2}\left(1+\frac{c_0}{a}\right)+\frac{1}{2}\left(1+\frac{c_0}{a}\right)^{-1}\right]$ $=-\frac{ca^{2}}{2}\left[1+\frac{2f}{a}+\frac{f^{2}}{a^{2}}-\frac{3}{2}-\frac{3}{2}\frac{f}{a}+\frac{1}{2}\left(1-\frac{f}{a}-\frac{f^{2}}{a^{2}}\right)\right]$ $\psi = -\frac{ca^2}{2} \int_{ab}^{b} = -\frac{c\delta^2}{4}$ Willing orlytoni 2=00: 4=- = 62 =- c 52 MA 20ten: $\omega = \frac{1}{\sqrt{2}}$

Istych crosove oblisaming polegoje na zalisemin za romanin Pi = - 42 E some tylko v samej varstvie, a not, huiert przy ujej in 2 jej olyst uget ki stryninge 2=0 Just of that purous mode, a . E obuse, to musi to by roty prome vormanin: $-\frac{\partial s}{\partial t} = \frac{\partial x}{\partial x} + \frac{\partial y}{\partial y} + \frac{\partial z}{\partial z} = -\lambda \left(\frac{\partial \mathcal{U}}{\partial x} + \frac{\partial \mathcal{U}}{\partial y} + \frac{\partial \mathcal{U}}{\partial z} \right)$ 3 x + 4 2 x + 0 21 + 4 21 72 Juils sig Joing x v Kimmek limi pegde s: - 4 2 = 42d E $\frac{1}{2}\frac{\partial E}{\partial x} = \frac{42\lambda}{u}$ Ig E = -472 A Sal $-c\frac{\delta^2}{9} = -c(\frac{\delta}{9}s^2\theta)^2$ So = So δο = δρ si θ, = ρ si θ [a $\int \frac{a \, d\theta}{\frac{9}{2} \frac{c}{a} \sin \theta_1 \cdot \delta_1} = \frac{2}{3} \frac{a^2}{c \cdot d_1} \frac{\theta_1 - \theta}{\sin \theta_1}$ 20tim u Keidij warston

It = wort

E= E0 20 20 200

-422 3 2 0 0 0 2 2 2 E.

 N_{ij} . $\frac{\varepsilon}{\varepsilon_0} = \frac{1}{2}$ $\theta_1 = \frac{\rho_2}{2}$

 $q = 10^{-5}$

J= 10-6

Witomuk, do a

 $\lambda = \frac{1}{3} \cdot 10^8$

 $\frac{2}{3}$ 4.n. $\frac{4}{5}$. 10^{8} . $\frac{10^{10}}{10^{10}}$ ($\frac{n}{2}$ -0) =

M 0.3. 5.3

Juli u stale by = - tal s

a potentie te ministre on no s Nig. s= 106 0. 3. 23. = - 424 \$.108.106

4 = ces 200 m.

2 ot to work wrechely nie mai vejn'!

Nexat to voder det (rajeryth) te drobne ilvin' cheke, not, chimiest sig roprenezio ale I lynych izoldrach nostepi maisna deformacyo varstry letety inej Joke med chusy Kris benikk ponistua punkodsgryk pun cont ?

2 doji sig in to hydrie politomi jek

(3) med kul a chung i deolinj !

bo tor vie na povins dru moina sam dokod

(2) mi moin dry utvorzi kulky z blaki m. j. Collodim, najelu! Hz

oirby równy cycor jako ponutne i posci do croby, powings, z povistan !

2 oto kednic sily med gon punytning

Danki Hz kede ponothuri puncho dor' (z ponosh inormys tore's) mir lz.

Andogra do fipuial Vortex "Zamb. p 265

Egdy te homorkeyine mois rotopi' pries ptinge. fikeyjny toh' jke by je forodore in June 90-41 S' 3U' Ox Pu We to Mon of = I I and dedy de = to I for day de = to I for day de = 1 // come. df [con nx. (2n) + con ny Wagow) + con nz (2v)] of = 1 1 df Lie Herond i pe und se idutyrene: uy juils iduty save warmbs grandem to cytaking Myc Du province by: $\frac{\partial u}{\partial n} = \frac{\partial u}{\partial \alpha} + \frac{\partial u}{\partial \beta} = \frac{\partial u}{\partial \alpha} + \frac{\partial u}{\partial \beta} = \frac{\partial u}{\partial \alpha} + \frac{\partial u}{\partial \alpha} + \frac{\partial u}{\partial \beta} + \frac{\partial u}{\partial \beta} = \frac{\partial u}{\partial \alpha} + \frac{\partial u}{\partial \beta} +$ $\frac{\partial}{\partial x} \left(\frac{\partial u}{\partial z} \right) + \frac{\partial}{\partial y} \left(\frac{\partial v}{\partial z} \right) = -\left(\frac{\partial v}{\partial z^2} \right)_0 = \sqrt{2} \frac{\partial}{\partial x} = \frac{1}{2} \frac{\partial v}{\partial x}$ Wire bylon wojóle: U,-U2 = 9-4 2/ (1-12)

Jirls mit Brown a powo downy pun sweetrank pry yry, joko enyra fun noy rosponona ! Ny. 2 = 0.001 mm = 10 cm v= 0.003 mm = 3.404 opor = 6 12 a pr v p= 0.018 Maca po sec: 622/202 = 63.3.14. 104.0.018. 9.10 = 10¹² . ## 0.17 . 9 = 1.5.10¹² My Ey objection thing kelli: 42 10 = 1/2 1012 and Zoten praca po la mlita y: 3 Ey Two drini: 60. 60. 24 = 86400 and 260.000 by = 260.000 ged = 100 ged

= 2 dui

12 N (1- 20) +c

はかかかかけるか ニーシャ

U = 34 ×4

Euroja Norkovstoni ovoj kelhi: 10 x. 0 = 4 n 2, x = 3.14. 80. W. 10 8 (Ly) = 25, 10 7 Zat Sney: Town ystonyfol do opedamie mich na 25.10? = 10.10 su.

Ruch kuli i ciery; ory na mozina mozyly dan' inertia terms Ha taria: Our tario:

$$u = \frac{M}{2} \left(\frac{\sqrt{1}}{2} + \frac{xL}{23} \right) + \frac{N}{23} \left(1 - \frac{3xL}{22} \right) + c$$

$$v = \frac{M}{2} \cdot \frac{xL}{23} - \frac{3N}{23} xT$$

$$3N$$

$$(u_1+u_2)\frac{\partial u_1+u_2}{\partial x}+\dots=-\frac{\partial x}{\partial x}+\mu\left(\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{$$

$$\frac{\partial u}{\partial x} = M \left[\frac{1}{x^{3}} + \frac{1}{x^{3$$

$$M \left\{ \frac{4}{n^{5}} - \frac{4}{n^{2}} + \frac{4}{n^{2}} - \frac{3}{n^{2}} + \frac{4}{n^{2}} - \frac{3}{n^{2}} + \frac{4}{n^{2}} - \frac{3}{n^{2}} + \frac{5}{n^{2}} \right\} \\
+3N \left\{ -\frac{4}{n^{6}} + \frac{5}{n^{2}} + \frac{3}{n^{2}} + \frac{5}{n^{2}} \right\} \\
+3N \left\{ -\frac{4}{n^{6}} + \frac{5}{n^{2}} + \frac{3}{n^{2}} + \frac{3}{n^{2}} + \frac{5}{n^{2}} +$$

$$\frac{\partial v_{1}}{\partial x} + v_{1} \frac{\partial v_{1}}{\partial y} + v_{1} \frac{\partial v_{1}}{\partial z} = Mc \left(\frac{y}{\lambda^{3}} - \frac{2\lambda^{3}y}{\lambda^{5}} \right) + \frac{MN}{\lambda^{3}} \left\{ \frac{y}{\lambda^{3}} - \frac{3\lambda^{3}y}{\lambda^{5}} + \frac{9}{\lambda^{3}} \frac{x^{3}y}{\lambda^{5}} - \frac{3x^{3}y}{\lambda^{5}} + \frac{9}{\lambda^{3}} \frac{x^{3}y}{\lambda^{5}} - \frac{3x^{3}y}{\lambda^{5}} \right\} - \frac{3x^{3}y}{\lambda^{5}} + \frac{9}{\lambda^{3}} \frac{x^{3}y}{\lambda^{5}} + \frac{9}{\lambda^{3}} \frac{x^{3}y}{\lambda^{5}} + \frac{9}{\lambda^{3}} \frac{x^{3}y}{\lambda^{5}} - \frac{3x^{3}y}{\lambda^{5}} + \frac{9}{\lambda^{3}} \frac{x^{3}y}{\lambda^{5}} - \frac{3x^{3}y}{\lambda^{5}} + \frac{9}{\lambda^{5}} \frac{x^{3}y}{\lambda^{5}} - \frac{3x^{3}y}{\lambda^{5}} + \frac{9}{\lambda^{5}} \frac{x^{3}y}{\lambda^{5}} + \frac{9}{\lambda^{5}} \frac{x^{3}y}{\lambda^{5}} + \frac{9}{\lambda^{5}} \frac{x^{3}y}{\lambda^{5}} + \frac{9}{\lambda^{5}} \frac{x^{5}y}{\lambda^{5}} + \frac{9}{\lambda^{5}} \frac{x^{5}y}{\lambda^{$$

$$0 = \frac{\partial h}{\partial x} - \mu \nabla (u_1 + u_2)$$

$$0 = \frac{\partial h}{\partial y} - \mu \nabla (u_1 + u_2)$$

$$0 = \frac{\partial h}{\partial x} - \mu \nabla (u_1 + u_2)$$

$$0 = \frac{\partial L}{\partial x} - \mu P(u_1 + u_2)$$

$$u_2 \frac{\partial u_1}{\partial x} + v_2 \frac{\partial u_2}{\partial y} + \omega_2 \frac{\partial u_2}{\partial z} = -\frac{\partial}{\partial y}$$

$$0 = \frac{\partial L}{\partial y} - \mu P(u_1 + u_2)$$

$$u_2 \frac{\partial u_2}{\partial x} + u_2 \frac{\partial u_2}{\partial y} + \omega_2 \frac{\partial u_2}{\partial z} = -\frac{\partial}{\partial y}$$

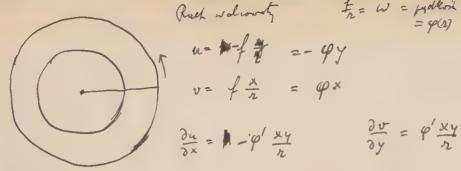
$$0 = \frac{\partial L}{\partial y} - \mu P(u_1 + u_2)$$

Tribo cry:
$$(u_1+u_2)\frac{\partial u_1+u_2}{\partial x}+\cdots=-\frac{\partial r}{\partial x}$$
 , $+$

$$n' \frac{\partial x}{\partial n'} + n^2 \frac{\partial x}{\partial n'} + n' \frac{\partial x}{\partial n^2} + n^2 \frac{\partial x}{\partial n'} = -\frac{\partial x}{\partial r} + \frac{\partial x}{\partial n'}$$

$$= -\frac{\partial x}{\partial r} + \frac{\partial x}{\partial n'} + \frac{\partial x}{\partial n'} + \frac{\partial x}{\partial n'}$$

$$= -\frac{\partial x}{\partial r} + \frac{\partial x}{\partial n'} + \frac{\partial x}{\partial n'} + \frac{\partial x}{\partial n'}$$



Ruch walnowing
$$f_r = \omega = \mu_0 d k \sigma i k y toro$$

$$u = \mu - f = - \mu y$$

$$v = f = \mu \times \mu \times \mu$$

$$\frac{\partial x}{\partial u} = 1 - \frac{\partial x}{\partial u} = \frac{\partial y}{\partial u$$

$$\frac{\partial^2 u}{\partial x^2} = -\varphi'' \frac{x^2 y}{x^2} - \frac{\varphi' y}{x} + \frac{\varphi' \frac{x^2 y}{x^3}}{x^3}$$

$$\frac{\partial u}{\partial y} = -\varphi + - \varphi' \frac{y^2}{r}$$

$$\frac{\partial^{2}u}{\partial y^{2}} = -3\frac{y^{2}y}{2} - 4\frac{y^{3}}{2} + 4\frac{y^{2}}{2}$$

$$\frac{\partial v}{\partial x} = \varphi + \varphi' \frac{x^2}{2}$$

$$u\frac{\partial u}{\partial x} + v\frac{\partial u}{\partial y} = \varphi\varphi' \frac{xy^2}{r} - \varphi^2 x - \varphi\varphi' \frac{xy^2}{r} = -\varphi^2 x$$

$$-\varphi^2 x = -\frac{\partial x}{\partial x} \begin{vmatrix} \frac{x}{2} \\ \frac{y}{2} \end{vmatrix}$$

$$-\varphi^2 y = -\frac{\partial x}{\partial y} \begin{vmatrix} \frac{x}{2} \\ \frac{y}{2} \end{vmatrix}$$

$$+\frac{2}{3} \frac{x^2 + y^2}{2} = r \cdot \varphi^2$$

$$\frac{\lambda}{\lambda} = \frac{\lambda}{2} = \frac{\lambda}$$

$$\frac{dr}{dr} = \varphi^2 \frac{x + y^2}{r} = r \cdot \varphi^2$$

$$\rho = \int \varphi^2 \cdot r \, dr$$

q nicoanorone, doodne mimo že dane moja byť spita povienchi

$$\frac{1}{2} \frac{\partial x}{\partial x} = -\frac{\varphi''y}{2} - \frac{3\varphi'\frac{y}{2}}{2} \left\| \frac{x}{2} \right\|^{\frac{x}{2}}$$

$$\frac{1}{2} \frac{\partial y}{\partial y} = \frac{\varphi''x}{2} + \frac{3\varphi'\frac{x}{2}}{2} \left\| \frac{x}{2} \right\|^{\frac{x}{2}}$$

$$\frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} = -\varphi' - 3\frac{\varphi'}{2} - \varphi'' \frac{1}{2} \frac{1}{2} + 3\varphi' \frac{1}{2} \frac{1}{2} = 0$$

$$= -\varphi'' + 3\frac{\varphi'}{2} + \varphi'' \frac{1}{2} \frac{1}{2} + 3\varphi'' \frac{1}{2} \frac{1}{2} = 0$$

$$= -\varphi'' + 3\frac{\varphi'}{2} + \varphi'' \frac{1}{2} \frac{1}{2} + 3\varphi'' \frac{1}{2} \frac{1}{2} = 0$$

$$= -\varphi'' + 3\frac{\varphi'}{2} + \varphi'' \frac{1}{2} \frac{1}{2} + 3\varphi'' \frac{1}{2} = 0$$

$$= -\varphi'' + 3\frac{\varphi'}{2} + \varphi'' \frac{1}{2} + 3\varphi'' \frac{1}{2} = 0$$

$$= -\varphi'' + 3\frac{\varphi'}{2} + \varphi'' \frac{1}{2} + 3\varphi'' \frac{1}{2} = 0$$

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$$= -\varphi'' + 3\frac{\varphi'}{2} + \varphi'' \frac{1}{2} + 3\varphi'' \frac{1}{2} = 0$$

$$= -\varphi'' + 3\frac{\varphi'}{2} + \frac{1}{2} + \frac{1$$

$$\frac{1}{m} \frac{dn}{dr} = 0$$

$$p = const$$

$$q'' + 3p' = 0$$

I Szybki tarcie:

$$-\frac{1}{2}x = -\frac{3x}{3x} + \mu \left(\frac{9''y + 3\frac{9'}{2}}{2} \right) = \frac{x}{2}$$

$$-\frac{9^2y}{3} = -\frac{3x}{3y} + \mu \left(\frac{9''x + 3\frac{9'}{2}}{2} \right) = \frac{x}{2}$$

$$-\frac{\varphi^2}{r}\cdot\frac{x^2+y^2}{r}=-\frac{dy}{dx}=-\frac{\varphi^2}{r}$$

1 - 294 xy + 298 xy =

tatem pa to same rowrgranie co predten Aglkose f tues hokie inne

$$\varphi = -\frac{c}{2x^2} + b$$

$$\varphi' = -\frac{c}{2x^3}$$

$$\varphi'' = -\frac{3c}{2x^4}$$

Mianoricie:
$$\frac{d\mu}{dr} = r q^2$$
 $\mu = h \left(b - \frac{c}{2r}\right)^2 dr$
 $h^2 = h \left(b - \frac{c}{2r}\right)^2 dr$
 $h^2 = \left[b^2 \frac{r}{r^2} + bc \right] + \frac{c^2}{4r^2} + \frac{c^2}{4r^$

To otative tylko mislive juils $\frac{\partial u}{\partial x} = \dots = 0$ juils a show were also tri a nick, make

Dogolny propodka rozvogení i potem po voti coroz umiejse stady overvingí: u = uo + m Mu, + m² uz*+...

juli w gih malin toki veringue

canorabol mythis wie polis wy wy the pierrong: " O

$$\frac{u_0}{\partial x} + v_0 \frac{\partial u_1}{\partial y} + V_0 \frac{\partial u_2}{\partial z} + u_1 \frac{\partial u_0}{\partial x} + v_2 \frac{\partial u_0}{\partial y} + v_3 \frac{\partial u_0}{\partial z} = -\frac{\partial k_1}{\partial x} + \nabla^2 u_0$$

10 duotust to duot us + De duotus + (40+41) duo + (41+ 11) duo + (50+11) duo duo duotus duo duotus + (40+41) duo + (41+11) duo + (50+11) duo duo duotus duo duotus + (40+41) duo + (41+11) duo + (50+11) duo + (50+11) duo duo duotus + (50+11) duo + (50+11)

$$u_1 = \left(\frac{\partial u}{\partial u}\right)_0$$
 of.

$$\left(\frac{\partial}{\partial u} \left[u \frac{\partial u}{\partial x} + v \frac{\partial u}{\partial y} + v \frac{\partial u}{\partial z} \right] \right)_{0} = -\left(\frac{\partial u}{\partial x \partial u}\right)_{0} + \nabla u$$

Just ruch miradiry of to toomorrown:

1/10-10 2x - 20 - 10 2x

hypyte diay:

por jetien arl To. curls) =0 moja obnosións itali:

$$a \Delta u = u \frac{\partial u}{\partial x} + u \frac{\partial u}{\partial y} + u \frac{\partial u}{\partial z} + \frac{\partial u}{\partial z} + \frac{\partial u}{\partial z} + \frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z} +$$

Sourouni avore 2 adamie :

$$v = \frac{3}{32} = \xi = \eta = 0$$

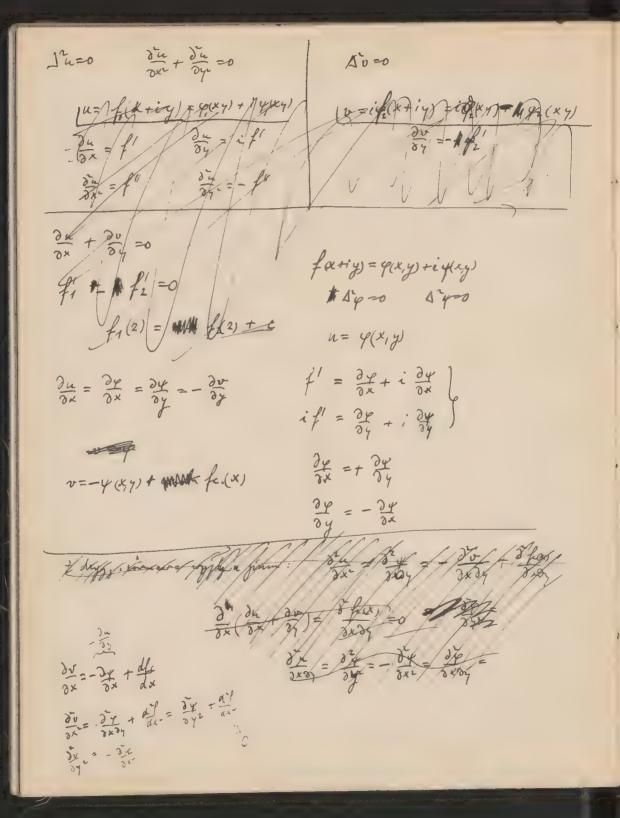
$$u \frac{\partial \xi}{\partial x} + v \frac{\partial \xi}{\partial y} = 0$$

$$u\left(\frac{\partial u}{\partial x^{2}} - \frac{\partial v}{\partial x^{2}}\right) + v\left(\frac{\partial u}{\partial y^{2}} - \frac{\partial v}{\partial x^{2}}\right) = 0$$

$$u\left(\frac{\partial u}{\partial x\partial y} + \frac{\partial^2 v}{\partial y^2}\right) = v\left(\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 v}{\partial x\partial y}\right) = 0$$

$$u \frac{\partial}{\partial \gamma} \left(\frac{\partial u}{\partial x} + \frac{\partial v}{\partial \gamma} \right) - v \frac{\partial}{\partial x} \left(\frac{\partial u}{\partial x} + \frac{\partial v}{\partial \gamma} \right) = 0$$

wife to rossamie ; tak spetnione juil plinon



Tytanie: o ile esommhi graviane mogg by dovolnie shane?

M'ss. = excip

rungting) = reig Log

log rungerny : i pt ly 2

 $2^{2} = n^{2}(x^{2}y - x^{2}y + 2^{2}x + y^{2}y)$ $= n^{2}e^{2iy} = n^{2}c^{2}y + i^{2}n^{2}x^{2}p$

I. $\frac{1}{3}z = \frac{1}{3}x + \frac{1}{3}y + \frac{1}{2}$ $u = \frac{1}{3}x + \frac{1}{3}y + \frac{1}{2}$ $v = -4 + 6x + c = -\arctan + \frac{1}{3}x + 6x + c$ $\frac{3u}{3x} = \frac{x}{2}$ $\frac{3u}{3x} = \frac{1}{2}x - \frac{2x^2}{2x^2}$ $\frac{3u}{3x} = \frac{1}{2}x - \frac{2x^2}{2x^2}$

30 = + 1 = 4 + 6 = 4 + 6 | 30 = -1 = -1 × -- 1 × / 2 × --

 $\frac{\partial u}{\partial x} = -2 \frac{4x}{27} \qquad \qquad \frac{\partial u}{\partial y} = 100 + \frac{24x}{27} \qquad | \xi = 0$

Powrenchura, jedni dare ciere z torenem graning zeroky:

$$\frac{1}{2} x_{i} = -\frac{1}{2} x_{i} + \mu_{i} \nabla \dot{u}_{i}$$

$$\frac{1}{2} x_{i} = -\frac{1}{2} x_{i} + \mu_{i} \nabla \dot{u}_{i}$$

$$\frac{1}{2} x_{i} = -\frac{1}{2} x_{i} + \mu_{i} \nabla \dot{u}_{i}$$

$$\frac{1}{2} x_{i} = -\frac{1}{2} x_{i} + \mu_{i} \nabla \dot{u}_{i}$$

$$\frac{1}{2} x_{i} + \frac{1}{2} x_{i} + \frac{1}{2} x_{i} = 0$$

$$Du_2 = -\frac{3h_2}{3u} + m_2 Din_2$$

$$Du_2 = -\frac{3h_2}{7y} + m_2 Di_2$$

$$Du_2 = -\frac{3h_2}{7y} + m_2 Di_2$$

$$\frac{3m_2}{7x} + \frac{3u_2}{3y} + \frac{3u_2}{7z} = 0$$

After of the mostion will as poriushing of the same:

l poxx + m pox + mpx - lpxxx + mpxy + n pxx2 it.

Ochi portitura is alicry Jak samo jok polyby parcie by to invam joho - 2 $\frac{Dn_1}{Dt} = -\frac{\partial t}{\partial x} + n_1 \nabla \hat{n}$ $\frac{Dn_2}{Dt} = -\frac{\partial t}{\partial x} + \frac{n_2}{\rho_2} \nabla \hat{n}$ $\rho_2 = 0.0013 \qquad \frac{1}{\rho_2} = \frac{0.17}{1.3} = 0.13$ Ale roson 62= 0.00000 } = 4.0 Weingter: wige goly pour he voly vede jime ing nie mydetin to jui tardes v Hz Na pavlerschni: M,= 42 =0 WMadajec os OX v r or v 21 V, = V1 02 s n 11 U1= U2 =0 -p + 2m du, = -p + 2m duz In (dy + 3x) = my du + dv2) M, (12 + 7)=11, 12 + 70/2

florin: m, dv, = Mz dx

Millin, i pr D'ne bedg cot typ samps ugh willow The tree 2 oten energy deriajos De mise pracis senentral p. Des

1 to a go songo my de calkon

Hirryn Ala vol: $\varphi = C(x + \frac{a^3x}{2n^3}) = cx\left[1 + \frac{a^2}{2n^3}\right]$ $u = \ln \left[1 + \frac{a^3}{2n^3}\left(1 - \frac{3x^2}{2n^3}\right)\right]$ $= cx\left[n + \frac{a^3x}{2n^3}\right] = cx\left[1 + \frac{a^3}{2n^3}\right]$ $= cx\left[n + \frac{a^3x}{2n^3}\right]$ $= cx\left[n + \frac{a^3x}{2n^3}\right]$ $V_{\omega} = -\frac{3}{2} \frac{c}{\sqrt{3}} \times \omega$

within just durkow: $v_0 = \left(\frac{\partial \varphi}{\partial \theta}\right)_{n=0} = - c \pi \sin \theta \left[1 + \frac{\alpha^3}{2\pi^3}\right]$

 $\frac{\partial v_{\theta}}{\partial r} = -c \sin \theta \left[1 + \frac{\alpha^3}{2r^3} - \frac{\alpha^3}{r^3} \right] = -\frac{\alpha}{2} \sin \theta$

 $v_{0/} = -\frac{3}{2}ac\sin\theta$

The foron bordes exercideough my wykly temp. n = 0.00017 n = 100!Pu = - fx + n Pin toking bonder note 12-0 / T'v=0 2 stern pry Soienie. ale to me more two stanse = curl 20 for the du to de to Nie zanierają og 2 ster pry daryt wormkoch gramianych mie zmien'a nij z crose Wige ned ustanano sig notyhimiostovo | nie ma zjevisk skutymysh Octor Lo b + 526 I clove to vermak 3 2 2 20 2 togo vynika, ži sv = v = o songdrie [n=c[1-2] Words just und powly is ketik presunter is to some dla pernych porturchen ra nour gramisme estable u = c, v = c2 J=C3

Ingelni andogramie jok: Il selektrototique mydy itordetter - na is Juli parice a noisynh, & untho a yough. Proplye pres mot rate in notion fine just see prestorion toloken W tamty purpladsis: S + AR - C # 1+ AR = X Ju + 30 + 30 = 10 x3 AR - K-1 $\frac{c}{A} \stackrel{\partial}{\partial t} + \frac{\partial u}{\partial x} = \frac{2i}{3i} \left[+ \frac{2}{3i} \left(\frac{\partial u}{\partial x} \right)^2 + \left(\frac{\partial u}{\partial z} \right)^2 + \left(\frac{\partial u}{\partial y} \right)^2 \right]$ 4 prevotenon desto 1 + K 1 8 1 + 1 20 x $\frac{c}{A} \rho u_0 \left[\frac{1}{2} \right] \frac{2\theta}{2x} + \rho \mathcal{R} \theta u_0 \frac{ax}{2^3} = \frac{2u}{2^6} \left[\frac{2u}{2^6} \left[\frac{u^2}{2^2} + \frac{2^2}{3} x^2 \right] \right]$ 2(pu)=0 ud P & = court = Po 100 p= Po Todas na jordinadni vorstvo igranoso jarding nech v v ^c/_A ρο μο ^{∂θ}/_{∂x} + θ. R. ρο μο ^{ex}/_{2³(1-a/2)} = 2n μο ^{ex}/₂₆ (2²- x²/₃) $\frac{\partial b}{\partial x} + \theta(k-1) \frac{ab}{2^2 - an} \frac{x}{n} = 2n \frac{k-1}{R} \frac{u_0 a^2}{p_0} \frac{x^2 - \frac{1}{3}}{2^6}$ 2 = -1 + 1 = 2 | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q | 7 - Q

$$\frac{\partial}{\partial x} + \theta X_{1} = X_{2}$$

$$\frac{\partial}{\partial x} + \frac{\partial}{\partial x} + \frac{\partial}{\partial x} = X_{2}$$

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$$\theta = \left(\frac{n}{n-\alpha}\right)^{k-1} \left[\theta + \frac{2n(k-1)u_0\alpha^2}{2p_0}\right] + \frac{n^2 - \frac{n^2}{3}}{n^2} \left(\frac{n-\alpha}{n}\right)^{k-1} dx$$

$$p_0 prosprint$$

$$f_{xx} = \frac{4}{3} \mu \frac{\partial h}{\partial x}$$

$$f_{xy} = \frac{2}{3} \mu \frac{\partial h}{\partial x}$$

$$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{$$

$$f_{1x} = \frac{u_0 a \mu}{2^4} \left(\frac{4}{3} x^2 + y^2 + 2^2 \right) = \frac{u_0 a \mu}{2^4} \left(2^2 + \frac{x^2}{3} \right)$$

$$\sum_{p \to \infty} \sum_{n} \sum_{n}$$

$$= u_0 \alpha \mu \cdot 2\pi \left(-\omega \theta - \frac{\omega^3 \theta}{9}\right)_0^n = 2\alpha \pi u_0 \mu \cdot \frac{20}{9} = \frac{40}{9} \alpha \pi u_0 \mu$$

Wise up kan ode predkon pod ptyca grantagi:

$$\frac{4}{3} a^{3} n + g = \frac{40}{9} a n u_{0} u$$

$$u_{0} = \frac{3}{10} a^{2} n \frac{9}{u}$$

ma la

Visy tamter pryklieni dis- vojile ni nostopi zade neh juil uvo na portrachmisch = 0. Sieby is zanking ten norymin otropuse ned, noting wigle duic : The Hoth whole jich on I jording mains and the jun up u gre at. r= Rpo Pot 2 - de + n Pin 2ansobye miemori n: ア部=一計+ルワン 3x(P37)+3,(P37)+32(P37)= AP(34~)=1 のかニー等ナトロル らうとうことがとうよりなられてからかとうこ 1 + Jan + Jan + 12 1 - 2 等十月部十十月十月十十十十十十一日 20 + 30 [m+]+ pala + 34 30 + 4 34 70 - + Ho: Aatroion total : A P D+ +1 (FE+ 2 P) = 2-1mPu= st M V2 = 27 いなの一発

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$$\frac{1}{2} \frac{\partial \rho}{\partial x} + \frac{\partial \rho}{\partial x} + \frac{\partial}{\partial x} \frac{\partial \rho}{\partial x} + \frac{\partial}{\partial y} \frac{\partial \rho}{\partial x} + \frac{\partial}{\partial z} \frac{\partial}{\partial z} \frac{\partial \rho}{\partial x} + \frac{\partial}{\partial z} \frac{\partial}{\partial z} \frac{\partial \rho}{\partial x} + \frac{\partial}{\partial z} \frac{\partial}{\partial z} \frac{\partial}{\partial z} \frac{\partial}{\partial z} \frac{\partial}{\partial z} + \frac{\partial}{\partial z} \frac{\partial}$$

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totiem Kon in who was a terry boul - Thomson: O- unt 9 = 1 00 14=1 4' = 1/RAO Theoly: - (a Pato A'o to 6'0) = 2 [- 3 (Tot) + 2) 2. "3(" Put Pot Vi) - 2 (3 + 3 + 3) 2 + 6 (3) + (3) + (3) + (3) + $+3\left[\frac{\partial u}{\partial y}+\frac{\partial v}{\partial z}\right]^{2}+\left(\frac{\partial u}{\partial z}+\frac{\partial u}{\partial x}\right)^{2}+\left(\frac{\partial v}{\partial \alpha}+\frac{\partial u}{\partial y}\right)^{2}=0$ W jednovymino propoladnie v = v = 0: 3 m (The + The) - 2 (The) + 6 (The) 2 + 3 (The) 2 = 0 4 (du) + 3 u du + 3 [u du + (du) + 1 u du + 2] =0 1 3 (n 3 n) + 32 (n 3 n) Je dno nymiorony by 2021. ¥ (32) + \$ 4 3 m =0 4 3x + 13 0x =0 hay hat. On 13 = ant du sut = c 3 u = cx+6

Proce of agols now got ornous prun Ma for do = n fat a the + today +) a The = n Tu tylko prus je pxx of n d la st. Ill(" fx + v fx + v fx + v fx) dv = fundy dx + v f dxdx+v f dxdy -- III n (30 + 34 + 32) dx dy dr = If (a cosax + v snv + v snz) do - If (Txt on th) du, ~ $\int \int \left(\frac{\partial x}{\partial u} + \cdots\right) + u \frac{\partial x}{\partial v} + v \frac{\partial y}{\partial v} = 0$ Her juli jednok granica to ciny or total ugsiral glace med tain nierousy, to allow to proce wong trang by here recurous mus W/I = n // (n Dut --/) dr + // / Put --) dr = JAMANA JA (ultumt wn) des also tie pres frenkryg \$: With I Down to Atomic some voine The field pine isoperty = ps/[ul+vn+un]ds-ps/[ul-ds

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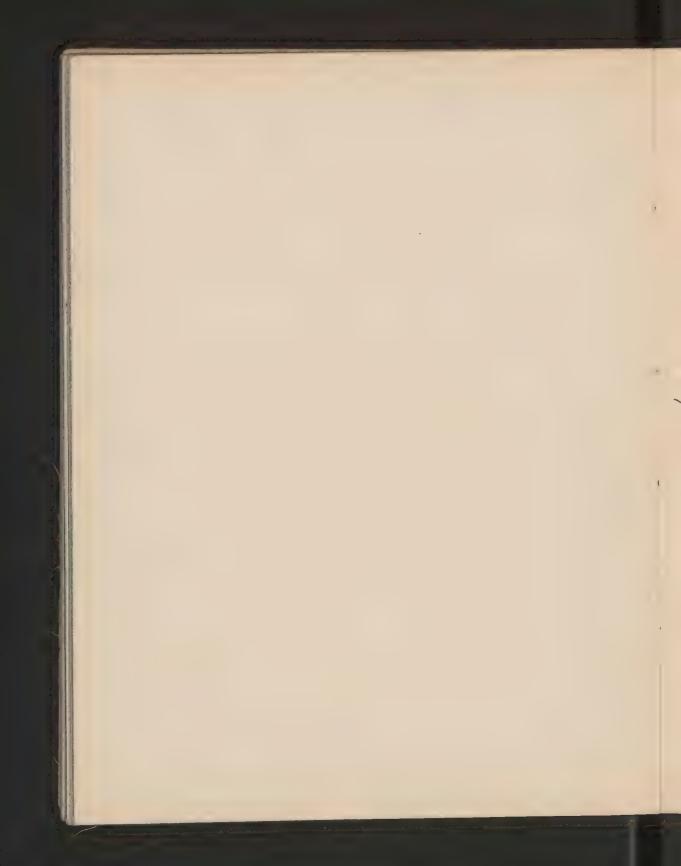
jisli ρ tylko fc(p), study prosted; dla tyl somy h porterschool: $e_{i}\int_{1}^{2}-e_{i}\int_{1}^{2}=0$ $f(h)\int_{1}^{2}-f(h)\int_{1}^{2}=0$ sle z typ jour nievynikate: p. f - p. f =0 ty. no to just's f(x.) ~ p, to enousy is notionisary Thouse somewie to main by spelinone tylks is specyolizal prypedhad. -----

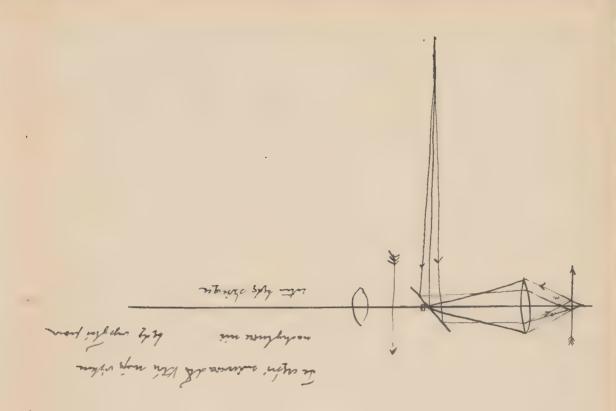
$$= \int_{-\infty}^{\infty} \frac{1}{1+\frac{1}{2}} \frac{1}{1+\frac{1}{2}}$$

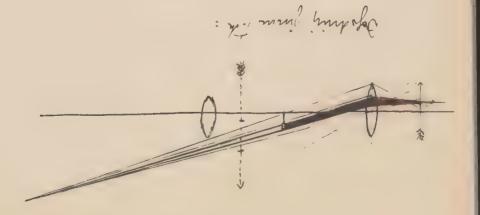
$$= \frac{1}{3} \int \left(u \frac{\partial u}{\partial x} + v \frac{\partial u}{\partial y} + u \frac{\partial u}{\partial x} + v \frac{\partial u}{\partial x} + u \frac{\partial u}{\partial x}$$

$$\begin{aligned}
& \int_{A} \left[\left[\left[\left[\left(\frac{\partial \theta}{\partial x} + v \frac{\partial \theta}{\partial y} + v \frac{\partial \theta}{\partial y} \right) dx \right] \right] dx \right] \\
& = R \int_{A} \left[\left[\left[\left[\left(\frac{\partial \theta}{\partial x} + v \frac{\partial \theta}{\partial y} + v \frac{\partial \theta}{\partial y} \right) \right] dx \right] \right] \\
& = R \int_{A} \left[\left[\left[\left(\frac{\partial \theta}{\partial x} + v \frac{\partial \theta}{\partial y} + v \frac{\partial \theta}{\partial y} + v \frac{\partial \theta}{\partial y} \right) \right] dx \right] \\
& = \left[\left[\left[\left(\frac{\partial \theta}{\partial x} + v \frac{\partial \theta}{\partial y} + v \frac{\partial \theta}{\partial y} + v \frac{\partial \theta}{\partial y} \right) \right] \right] dx \\
& = \left[\left[\left[\left(\frac{\partial \theta}{\partial x} + v \frac{\partial \theta}{\partial y} + v \frac{\partial \theta}{\partial y} + v \frac{\partial \theta}{\partial y} \right) \right] \right] dx \\
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1 3 hyz 2 - Mar Puto Por Pu) do ● Dd= 1 (いtretu) ds + ((1 を + 1 を) vn ds - ト - / ((alto mtwn) (2 + 2 1 2) ds -- ((V + V) + 1 D'u) dr + 1 (2x + 3y + 32) do =- penl 2 curl V(v. mrlv) = - u eurl 30 = mili- u Vauls dio V(p. curlo) = (corlo) - Sp. curl 20 = - V (+ + 2) On touto: curl V(v. curlo) =0 Tay to just j'Anorra unic orracione pure " ? V(v. welv) = 72 Na podust urlo dezy u poduschu semij, o co, sie v kim he styrny usque Pll musi sig stoć co ne poduschu; miemskomij







rater Ade plan: (my oth) oyed it poise how I man dy ornelled somest i to Sorme & S. I). de stron. Bonch was bich wirey I worked us grabe miss complete To do my rooters or of file more when when Bropers d(d-/0) = (n-1) dp 0/p = = ep 1-7 Cho C/m n = pp pm Youn = poop I get wargetone. there switten is is whyth whomen, where O partame is O tylke o tyle o it paradon

oper u mu déprir la J= 4.10°, 4.0°018 = 3000 exp. coph dodorate 110000 myly rely 5 sounds 2= 0.0000 mm (Munde - 0.0001) for the the windows constituence introduced the post and those . 5.0 = 91.81.0 = 4.91 = \frac{01.4.44}{3-01} = D apor is muce allugare. I cm, a predesque no 6.001 cm William: My is radoning punch = 40,10 6 (cm) Wige myd othire megleby ing to tylk prydfings prose thong, gps its. The unique todai me offer a salame : node! (ale mostle soin's!) The wife is the total of the first the first the total 27 = 00 507 = ng h = ~ 1000.0 =3 study they all sie y du = 204 water 206 m 100.0 = 3 - stry when the ste redengueging with 20.2 = 201,2.1. fr 000 0 = 20 p = .mho. 01, 02 = 11 = 23 = 21 = 21 = 20 A 07 = 44 = t1000.0=1 N. juil : 2 = 001 cm

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$$0 - 9 \left\{ \begin{array}{c} -3 + 39 + 9 = 0 \\ 3 - 3 - 9 = 0 \end{array} \right.$$

$$c = \frac{rhe}{re} = e = \frac{r}{re}$$

$$0 = \frac{xe}{mhe}$$

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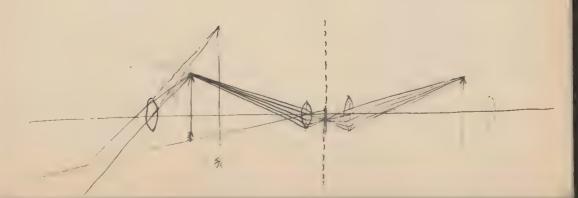
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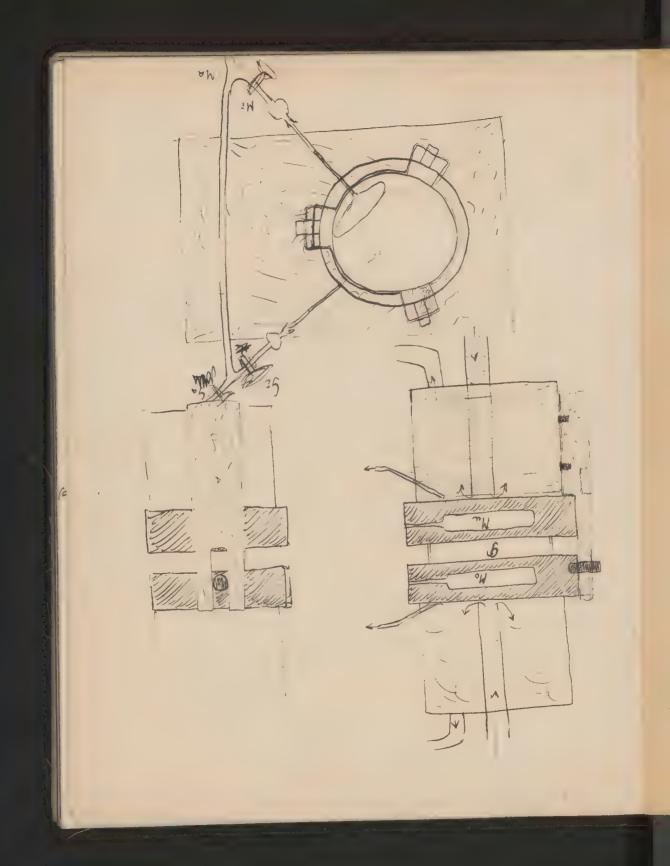
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To lysely was on pung stally objective

$$\frac{40 \pm 66.0}{40 \pm 66.0} = \frac{441 \pm 6.1}{88 \times 15.7} = \frac{55471.0}{9.44.4}$$

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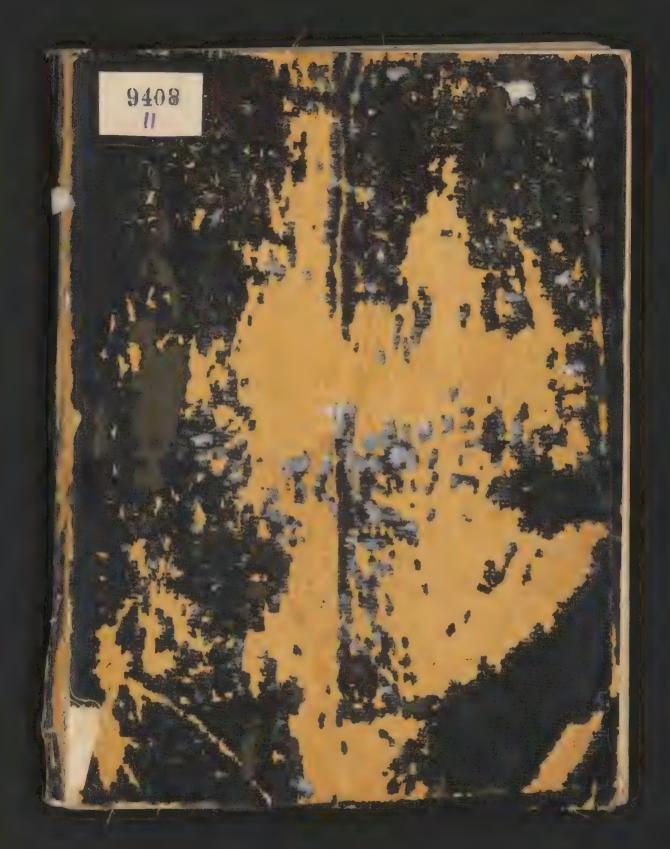
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Methode zur Nersung der Wermeldting - Emohne mit der Tenperation. 7). Falls & wortent son, so were Gesdrick entyrechent Do + D, I) Doyy vun K= Ko (1+ pt): * (1+ pd) did = confl. = e 1+ 12 = ax+6 b = vo + 1 vo a = 2-20 + 1 2 - 202 Oder were No = O ges that wil: h カナトニー 大(パナルツ) Nothber Temperated = $\frac{1}{a} \int dx = \frac{1}{a} \int dx = \frac{1}{a} \int dx = \frac{1}{a}$ $\theta = \frac{1}{ah} \left(\frac{\vartheta^2}{2} + \frac{\beta \vartheta^3}{3} \right) = \frac{\vartheta^2}{2} + \frac{\beta \vartheta^3}{2} = \frac{\vartheta}{2} \frac{1 + \frac{2}{3} \beta \vartheta}{1 + \frac{1}{2} \beta \vartheta} + \frac{\vartheta^3}{2} \left[1 + \frac{1}{2} \beta \vartheta^3 \right]$ Wen do 20 20 0 = 0.0018 0 = 50 [1+ 0.03] = 50° + 15° und zwar moblegig om Detaux der Olatter, mollegy vor Stabling Thomastot velehr von anderen Zuflohnek mothaigy ist:

Connection formal for Statements.

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$$C # = \frac{\partial^{2}}{\partial x^{3}} = \frac{\partial}{\partial x} \left(\frac{\partial^{2}}{\partial x^{2}} \right) - \frac{\partial^{2}}{\partial x} \frac{\partial^{2}}{\partial x^{2}}$$

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=====+(a-x)+y= $V = \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2}$ $\frac{\partial V}{\partial x} = -\frac{1}{2} \cdot \frac{\partial x_1}{\partial x} - \cdots$ $X = \frac{1}{2} \cdot \frac{\partial x_1}{\partial x} + \cdots$ $X = \frac{1}{2} \cdot \frac{\partial x_1}{\partial x} + \cdots$ 1= 2+ (@ +x)2+y2 なっこナーインナメンナメン 2 = 2 + (a-y) + x2 $\frac{\partial}{\partial x} = -\frac{\partial}{\partial x} = -\frac{1}{2} \left(\frac{\partial x_i}{\partial x_i} \right)^2 + \frac{1}{2} \left(\frac$ = \(\langle (\alpha - \chi)^2 \rangle - \langle (\alpha + \chi)^2 \rangle - \langle (\alpha + \chi)^2 \rangle - \langle \chi + \chi + \chi^2 \rangle - \langle - \langle \chi + \chi + \chi^2 \rangle - \langle \chi + \chi + \chi^2 \rangle - \langle - \lang \[
 \leq \frac{1}{\left[2^2 + (q - x)^2]^{3/2}} + \frac{4 + x}{\left[2^2 + (q + x)^2]^{3/2}} + \frac{2x}{\left[2^2 + q^2 + x^2]^{3/2}}
 \] - 3 (2-x) - 3 (2-x) - 3 (2+x) - 6 x $Z = \frac{2}{2^{2}} = \frac{2}{\left[2^{2} + (e^{-x})^{2}\right]^{3/2}} + \frac{2}{\left[2^{2} + (e^{+x})^{2}\right]^{3/2}} + \frac{22}{\left[2^{2} + (e^{-x})^{2}\right]^{3/2}}$ + $\frac{1}{[2^{2}+(e^{-x})^{2}]^{3/2}}$ + $\frac{1}{[2^{2}+(e^{+x})^{2}]^{3/2}}$ + $\frac{1}{[2^{2}+e^{-x}]^{3/2}}$

$$\frac{3}{9x} = \frac{3}{2^{-4}a^{-3}} \int_{0}^{3} \left(\frac{(a-x)^{\frac{1}{2}}}{9} + \frac{(a+x)^{\frac{1}{2}}}{(a^{-4}+2^{-1})^{\frac{1}{2}}} \right) \int_{0}^{3} \left(\frac{1}{9} + \frac{2ax + x^{2}}{a^{-4}+2^{-1}} \right) \int_{0}^{3} \left(\frac{1}{1 + \frac{2ax + x^{2}}{a^{-4}+2^{-1}}} \right) \int_{0}^{3} \left(\frac{1}{1 + \frac$$

$$\frac{\partial V}{\partial x^{2}} = 0 \quad \text{and} \quad \frac{\partial V}{\partial y^{2}} = 0 \quad \text{fin} \quad 2 = \frac{a^{2}}{2}$$

$$-\frac{\partial V}{\partial x^{3}} = -15 \frac{(a-x)^{3}}{[2^{2}+(a^{2}-x)^{2}]^{3}/L} + 15 \frac{(a+x)^{3}}{[2^{2}+(a+x)^{2}]^{3}/L} + \frac{30 \times a^{3}}{[2^{2}+(a^{2}-x)^{2}]^{3}/L} + \frac{15 \times a^{2}}{[2^{2}+(a^{2}-x)^{2}]^{3}/L} + \frac{16 \times a^{2}}{[2^{2}+(a^{2}-x)^{2}]^{3}/L} = 0$$

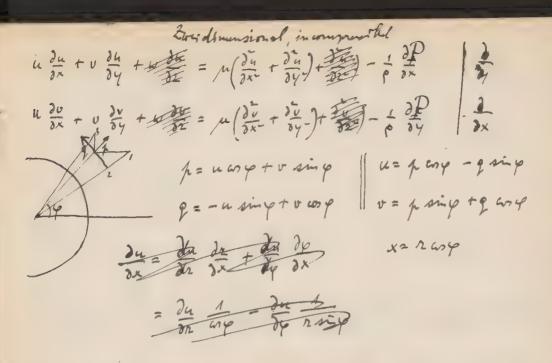
$$+ 0 \frac{(a-x)^{3}}{[2^{2}+(a^{2}-x)^{2}]^{3}/L} - 9 \frac{(a+x)^{3}}{[2^{2}+(a^{2}-x)^{2}]^{3}/L} - \frac{18 \times a^{2}}{[2^{2}+(a^{2}-x)^{2}]^{3}/L} = 0$$

$$-\frac{3^{4}V}{2x^{4}} = -3.5 \frac{(a-x)^{4}}{[a^{2}+(a-x)^{2}]^{4}h} - 2.5 \cdot 3 \cdot (a+x)^{\frac{1}{4}} - 2.3 \cdot 5 \cdot 7 \cdot \frac{x^{\frac{1}{4}}}{x^{\frac{1}{4}}}$$

$$+ 45 \frac{(a-x)^{2}}{[a^{2}+(a-x)^{2}]^{\frac{1}{4}h}} + 45 \frac{(a+x)^{\frac{1}{4}}}{(a^{2}+x)^{\frac{1}{4}h}} + 2.45 \frac{x^{\frac{1}{4}}}{(a^{2}+x)^{\frac{1}{4}h}}$$

$$-9 \frac{1}{[a^{2}+(a-x)^{2}]^{\frac{1}{4}h}} - 9 \frac{1}{(a^{2}+a^{2})^{\frac{1}{4}h}} - 2.9 \frac{1}{(a^{2}+a^{2})^{\frac{1}{4}h}}$$

$$= \frac{1}{(a^{2}+a^{2})^{\frac{1}{4}h}} \left\{ -\frac{420}{456} a^{\frac{1}{4}} + 180 (a^{\frac{1}{4}} + a^{\frac{1}{4}h}) - 36 (a^{\frac{1}{4}} + 2a^{\frac{1}{4}a^{\frac{1}{4}h}}) - 36 (a^{\frac{1}{4}} + 2a^{\frac{1}{4}a^{\frac{1}{4}$$



$$\frac{\partial u}{\partial x} = \frac{u_1 - u_2}{\Delta x} = \frac{u_1 - u_2}{\Delta x} + \frac{u_2 - u_3}{\Delta x} = \frac{u_1 - u_2 + u_2 - u_3}{2} + \frac{u_2 - u_3}{2} + \frac{u_3 - u_3}{$$

$$\frac{\partial u}{\partial x} = \frac{\partial h}{\partial x} wh - \frac{\partial h}{$$

$$\frac{\partial u}{\partial x} \frac{\partial u}{\partial y} + u \frac{\partial u}{\partial x} \frac{\partial u}{\partial y} + v \frac{\partial u}{\partial y} + v \frac{\partial u}{\partial y} - u \frac{\partial v}{\partial x} - u \frac{\partial$$

$$u = \frac{\partial V}{\partial x} + -\frac{\partial A_1}{\partial y} + \frac{\partial A_2}{\partial y}$$

$$v = \frac{\partial V}{\partial y} + -\frac{\partial A_2}{\partial x} + \frac{\partial A_3}{\partial z}$$

$$v = \frac{\partial V}{\partial y} + -\frac{\partial A_3}{\partial x} + \frac{\partial A_4}{\partial z}$$

$$v = \frac{\partial V}{\partial z} + -\frac{\partial A_4}{\partial y} + \frac{\partial A_5}{\partial x}$$

Mrs weed mensional:

$$u = \frac{\partial \varphi}{\partial x} + \frac{\partial \psi}{\partial y}$$

$$v = \frac{\partial \varphi}{\partial y} + \frac{\partial \psi}{\partial x}$$

gundy gans unothing

Wenn 20. y villsistech gwählt, wie muss op gwällt wude?

$$\left(\frac{\partial x}{\partial b} + \frac{\partial y}{\partial t}\right)\left(\frac{\partial x}{\partial t} + \frac{\partial x}{\partial t}\right) + \left(\frac{\partial y}{\partial t} - \frac{\partial x}{\partial t}\right)\left(\frac{\partial x}{\partial x}\right) + \frac{\partial^2 y}{\partial t} = \frac{\partial^2 y}{\partial t} + \cdots$$

Flatigheits Slichungen berojn auf Date Stromlinen (Ame Robing)

In wes Imminen:

$$m \frac{dv}{dt} = \int_{t}^{t} = m \frac{dv}{ds} \frac{ds}{dt} = m v \frac{dv}{ds}$$

$$m \frac{dv}{R} = \int_{u}^{t} \frac{dt}{ds} (mv)^{t}$$

$$= \frac{1}{2} \frac{dt}{ds} (mv)^{t}$$

$$R = 2 \frac{\int F_z ds}{F_n}$$

$$= 2 \frac{E}{E}$$

$$R = \int_{R}^{\infty} ds = \frac{dE}{ds}$$

$$R = \int_{R}^{\infty} \frac{dE}{ds}$$

$$R = \int_{R}^{\infty} \frac{dE}{ds}$$

$$R = \int_{R}^{\infty} \frac{dE}{ds}$$

$$= 2\frac{E}{F_{n}}$$

$$2E = P + R \frac{2P}{8R}$$

f(x, y, 2, n) - n \(\frac{\partial f(x, y, 2, n)}{\partial n} = \frac{\frac{\partial x}{\partial x}, y, 2)}{\partial n} 3t - 3t - n 3t = 0 $\frac{\partial E}{\partial \mu} = \varphi(X,Y,2)$ f= pe q(x, y, 2) + f(x, y, 2) 1 4(x, 4, 2) + 4(x 4 2) - 1 4(x, 4, 2) Mayon = F(x 4 2) P= m q(x, y, z) + TT PP= m Dq + VTT (6T) 6 = VP+ DE = NP4+VT+ NT6 (67)6 = TT 9= willkindish Function (-Vo= V8 evel 78=-and 1620

evel 78=-and 1620

evel 36=0 enrl V6 enrl 6 = 0 curl Vala a dio b - b dis a + (bP) a - (aP)t (67) a = Val + Vaula. 6 = V(curla, b- will, a) + + Va ab - Ve ab

$$6 = \nabla u + auxlv$$

$$auxl^{2} = auxl^{2} v$$

$$auxl^{2} 6 = auxl^{3} v = + \nabla p \quad \text{formit} : 6 = \int \frac{\nabla p}{4\pi k} dv$$

$$\nabla 6 \text{ auxl} 6 = V(\nabla u + \text{ auxl} v) \text{ auxl}^{2} v = \nabla \Phi$$

$$auxl 6 = auxl \int \frac{\nabla p}{4\pi k} dv = \int \frac{\partial u}{4\pi k} dv$$

$$\frac{\partial^{2}u}{\partial k^{2}} + \frac{\partial^{2}u}{\partial y^{2}} + \frac{\partial^{2}u}{\partial z^{2}} = \frac{\partial p}{\partial x} \qquad u = \int \frac{\partial p}{4\pi k} dv$$

$$\frac{\partial^{2}v}{\partial x^{2}} + \frac{\partial^{2}v}{\partial y^{2}} + \frac{\partial^{2}v}{\partial z^{2}} = \frac{\partial p}{\partial y} \qquad v =$$

$$\frac{\partial^{2}v}{\partial x^{2}} + \frac{\partial^{2}v}{\partial y^{2}} + \frac{\partial^{2}v}{\partial z^{2}} = \frac{\partial p}{\partial z} \qquad v =$$

$$curl^{4}v = curl^{3} 6 = 0$$

$$curl^{6} = i A_{1} + i A_{2} + k A_{3} = curl^{7}v = i \sqrt{0}, + ...$$

$$\sqrt{2}A_{1} = 0 = \sqrt{2}A_{2} = \sqrt{4}3$$

were couls =
$$\nabla b$$
 $\nabla b = 0$

and $a = 0 = \nabla b + 0 - \nabla b$
 $a = \sqrt{\frac{b + a}{a}} da + coul \frac{a - b}{a} da + 1$
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Continuation slowy. It wife + 32 right for so 32 + 32 =0 $\frac{\partial}{\partial n}(n\mu) + \frac{\partial}{\partial z}(n\nu) = 0$ $=\frac{i}{\lambda}\frac{2(\lambda^2)}{\partial \lambda}=\frac{1}{\partial \lambda}\frac{i}{\partial \lambda}\frac{2(\lambda^2)}{\partial \lambda}=-\frac{2\lambda^2}{\partial \lambda^2}$ 户第十四章= [] + 2 表 - 九十 元] - + 02] $f \frac{\partial w}{\partial x} + w \frac{\partial z}{\partial z} = w \left[\frac{\partial z}{\partial z} + \frac{1}{2} \frac{\partial w}{\partial z} + \frac{1}{2} \frac{\partial w}{\partial z} \right] - f \frac{\partial z}{\partial z}$ ohue Ryling: (0-9) = 0 = 9年 また = シャ・ヤーション・サーラウ = 0 v, - v = \$ 72 st = Doran Coll: P= Port fin bestimmte the lower 2= 25455 P 50 2 = Fn = 3(P n) 54 50 5A 2(P2) sint $n \frac{v^2}{R} = \frac{3(P_2)}{3\Delta} = \frac{3(P_2)}{3\Delta}$ Do = Ar R= 20 = 30 mis $no^2 \frac{\partial v}{\partial x} = \frac{\partial (P_R)}{\partial R} \sin v = nv \frac{\partial v}{\partial R} = v$ $2 v^2 \frac{\partial v}{\partial x} = \frac{\partial (P_x)}{\partial x}$

Home It Richty der Strombenou giget ist: \$ 是 = 片(色) 3x f + x 3x + x f + 3x =0 p = wf(22) 32 f + 32 + w 31 + 2 f =0 かくか(か計十部月)+か(型をナル部)=一十部十 (wf 3x + v 3x = n[3x + 2 2x + 3x -] - p 32 | f # f 3/2 + w 2 3/2 = m [w 3/2 + 2 3/2 of + 2 3/2 - f x + 2 3/2 of + ~ 3/2] 4 - f (2P + f 2P) 可以十十分就十分就十分就十分就十分就十一次十分之一0 $H_{J} = \mu \left[\frac{1}{2} \frac{\partial u}{\partial x^{2}} + 2 \frac{\partial u}{\partial x^{2}} \frac{\partial f}{\partial x^{2}} - \frac{\partial u}{\partial x^{2}} + 4 \frac{\partial f}{\partial x^{2}} \right] - \frac{1}{2} \frac{\partial f}{\partial x} = \int_{-\infty}^{\infty} \frac{\partial f}{\partial x^{2}} dx + \frac{\partial f}{\partial x^{2}} dx = \int_{-\infty}^{\infty} \frac{\partial f}{\partial x^{2}} dx + \frac{\partial f}{\partial x^{2}}$

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=37 7 77 y .K 1 ÷ , × = 6 sei eine long (67)6 = 1767 Vourl6 = 186- 78 P Dann ist = 26 and sime Ling finder the Foll, aber bei que und P2 Who the druk 6=6c 4= Mc P= Tc2 c4 = 76 + V6 mls)= ch 76 - + 02

Angenommen u, v, w, ser eine Ling, unter woll thurstande wind uptu et. in Yong in ? 4. 2x + 24, W, du, = 2u, 2u, + 3u, = 12, 2P, 2x + 2y + 22 + 6 2x u 34 + v 34 + v 32 + 4 32 + 4 34 + v, 34 + v, 34 = 34 + 34 + 34 + 32 - 632 + 4 2 + 4 2 + 4 2 + 4 2 2 Wann 20. up vq v = unst }a $-\frac{1}{p}\frac{\partial(P-P_{i})}{\partial x} = Sa\nabla u_{i}$ - = V(V-0,) = #(C)6 $u\left(\frac{\partial^2 u}{\partial x \partial y} - \frac{\partial^2 v}{\partial x^2}\right) + v\left(\frac{\partial^2 u}{\partial y^2} - \frac{\partial^2 v}{\partial y \partial x}\right) + w\left(\frac{\partial^2 u}{\partial y \partial x} - \frac{\partial^2 v}{\partial x \partial x}\right) = 0$ u 3x(34-30) + v 3y (34, - 30) + w 32 (34, - 30) = 0 [n 3 + + 0 3 + + 0 3 = 0] 3 + + 3 + 3 = 0 a 34 + -- =0 | Va // donas: q u 25 + --(6, V) 6, = 186,2 + V6, curl 6, = V26, - & P. V(6,+6)2+V(6,+6) and 6,+6) = V(6,+6) - + DP

V6, 5+ V16, 6+ 66, 1+ V62+ V6 world, + V6, curl 6, 76 curl 6, Flound 6 = 12+ 12- = [P-9] 27566 Werm and 6, in Lin - it: 2 V 66, + V (6, curl 6 + 6 curl 6,) = - ; V (P-C,-C') I' kann derous jumjunt nøttmut der folls åbehangt: and V(6, with + 6 and 6,) =0 (nibry box Also win = Tenst putit who so muss & inin moghthe) Florty hat buy min curl Tab = a di b - b dis a + (bV) a - (a T) } (curl 6 ∇) 6, - (6, ∇) aurl 6 + (curl 6, ∇) 6 - (6 ∇) curl 6, =0

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x = \\ \frac{\x^2}{2} \quad \qq \quad \qua 2 1 2 3 3 3 2 2 x = 2 1 5 3 x = 2 x = 2 1 5 2 = 1 = 1 = 3 + 1 = 3 = 2 = 4 = 3 = + 2 3 = + 2 3 = 1 $u = 11^{-1} = \frac{1}{11}$ $P = \pi^{-2}$ $\frac{2n-1}{W} = \frac{n-2}{W}$ $\frac{\partial u}{\partial x} = -\frac{i}{u^2} \frac{\partial U}{\partial x}$ $\frac{\partial u}{\partial x} = +\frac{2}{u^3} \left(\frac{\partial U}{\partial x} \right)^2 - \frac{i}{u^2} \frac{\partial^2 U}{\partial x^2}$ Warm man also eine Long du chi pete not soutolt mon eine andere werm man k, v, 2 m mei no ne moent, able u, v, w m mod seiner & In. kom tin hade (m) mod kleiner (che I xy2 us w mu ? wy2 m usw mn m²?

Em xy2 us w mu ? window more woidow

T xy2 m usw mn m²? metheigy transformation domine u). II xyz muvo mu The P Am xy2 1 nov I = inte zur omment genjen!

\$ (67)6 = F- 10 VP + 10 Vdiv6 + 10 78 Via b = a divb + ldis [i] th][a, 4, 2. div (p6) = 0 = pdir6 + S.6 7p = 0 a, (i t) P= f=(p) | dis 6 Vp + p V dis 6. + () li + 1 re = [i a, + jack day) Curl A 1 = 1/2 [curl V62 + V. V62 Vo] + p curl V o world * V(Vp. V6 wild) = pe will V6 - V. Vp [2 V62 + V6 cml6] + p wal V6 wal6 = p wal V6 = - VP + for V div 6. + pr 76 = -V. Plyp [- PP+ /3 Vdis 6+ 10 V8] and . Vound = end TP + the Volus + per) = Macure Foto + 13p2 V Vp Vdis = to end V6 + V. Ap 122 Vdivo + tor V6

V Sab= 12 +16 1 x : (a, b, +a, b, +3b) $|ml, mh, mh\rangle$ + $i\left(ls + \frac{\partial m}{\partial y} - ls + \frac{\partial m}{\partial z}\right) + \cdots$ = m cwlb + V. b Vm end VP = coul VP un prititi VP and Vp sind gles Agus de tit V ... ta. p. White is the second de la companya della companya della companya de la companya della Sant This is a supplied of to 1= - 105 - - 56 Va - John 15 de falls Trovision = - J. Y.

o' de g' 1. V. . - J. V. ... 1 P = 1 \ V = 1 . - 1 7 = x 5 + x 2 6 p - 3 ----1- t 7 TI FIVE 1-1.4.2.4 156: V -- VP + V die a e o part with. and pro-12 = fc f 1, 2 - Vp y = 12V. 1 1 2V · penint of The Are portion to the to - To x . 4 2 . 71 - PV- 1, tr. 2 + py is to

神 沙 产 ¥, / , J'eg νρφ- i ν²ρ,1 - · Γ - 117.51 = : 09 Ti i Vp P2 + fl . . - VP-P - 15: - PP + PF : = E +6 1/6 1 6 Vi = 0 += FLY + V

(3-8) +(3-6)=0 2 = y - Vai-1 + x2 8= (y- Vai-xi)n 25 = x n (y-1)n-1 Dx = n (y-1) x (y-1) n-2

$$\frac{\partial y}{\partial y} = n(n-1)(y) + \frac{1}{2} + \frac{1}{2}$$

or Propa + 34 [14-0]+ [x-] = 14(y-0)-+ 3 x (y-a) 2x(y-a) + 2x(y-a) [(+ -a) + (x) 2x (y-a) + 3p [(y-a)2+x2] = 4(y-a) - 6x3(y-a)3 + 2x(y-a)3 + 2x2y-a) = 2y-9/2+(y-0)+x2-3x2(y-0)2x(y-0)2 P 35 + \$ 35 = X $\frac{dx}{P} = \frac{dy}{dt} = \frac{dy}{R}$ $\left[\frac{y-q}{2x} + \frac{x}{2(y-q)}\right] dx = dy$ y-9 = 2x dy = 2 dx + x d2 1 (2+1) dx = 2(2dx+xdx) $dx = 1 2^2 dx + 2x 2 dx$ Ma(1-22) dx = 2x 2 dz dx = 22 d2 by x = 1 by (1-22) #= # /- (#3) Ax A(x2-y2+2ey 4-a2) x2-(y-0) = Ax *dx = y and (2x-A) dx=2y-a) dy

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V

(y-o) = x-Ax A=feigr R= 2 /2-Ax [2 + x [-Ax - 3x2(x2-Ax)] = 2 /x-Ax [2-Ax2-3x5+3Ax4] dig = dx [2 - Ax - 3x + 3Ax3] jiseli A = mot 4= 2yx + 4x2-3x5+3Ax+ + 0, f(y) u # = * + 3 x2(y-a)2 fruit : - 1 + 20 20 v= 4 / 2 / 4-9)3 0 = , 7x The ti = 2x(y-e)3 y-2x3(y-a)3 x+3x5(y-a)2 1 to- =

ingenommen und v werder en du Kros ofeflothe = 0 von fa bretz
$$u = (a-n)^n f(x,y) \xrightarrow{f_1 \times \dots \times h_n y} y$$

$$v = (a-n)^m f(x,y) \xrightarrow{f_2 \times \dots \times h_n y} x = 0$$

$$v = (a-n)^m f(x,y) \xrightarrow{f_3 \times \dots \times h_n y} x = 0$$

$$f(x,y) = \frac{1}{2^{m+k}}$$

$$\begin{cases} = -n(a-r)^{m-1} \frac{1}{2r} f(x,y) + (a-r)^{m} \frac{\partial f}{\partial y} - \\ +m(a-r)^{m-1} \frac{1}{2r} f(x,y) - (a-r)^{m} \frac{\partial F}{\partial x} \end{cases}$$

2D. Probe mit: u= m=1

20). (Note mit:
$$n = m = 1$$

$$\begin{cases} = -\frac{1}{2} + (a-n)\frac{2f}{2y} \\ + \frac{1}{2} + (a-n)\frac{2f}{2y} \end{cases}$$
Sem $\begin{cases} \geq 0 \text{ an Mar Obuffish.} \end{cases}$

$$\begin{cases} = -\frac{1}{2} + (a-n)\frac{2f}{2y} \\ + \frac{1}{2} + (a-n)\frac{2f}{2y} \end{cases}$$

$$\Rightarrow \begin{cases} = -\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \end{cases}$$

$$\Rightarrow \begin{cases} = -\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \end{cases}$$

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$$\Rightarrow \begin{cases} = -\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \end{cases}$$

$$\Rightarrow \begin{cases} = -\frac{1}{2} + \frac{1}{2} + \frac{1}{2$$

$$\frac{\partial f}{\partial x} = \frac{4}{n^3} \int_{-\infty}^{\infty} \frac{1}{n^3} \int_{-$$

$$= \frac{(y^{2}-2x^{2})}{n^{5}}f + 2xy \frac{\partial f}{\partial x} - \frac{y}{n}\frac{\partial f}{\partial x} - \frac{y}{n^{3}}\frac{\partial f}{\partial y} - 2x \frac{\partial f}{n}\frac{\partial f}{\partial x} - \frac{y^{2}}{n}\frac{\partial f}{\partial x} -$$

$$-\frac{2(x+y)}{n}\frac{\partial f}{\partial x} + \frac{2x+y}{n^3}\frac{\partial f}{\partial y} + \frac{\partial f}{\partial x}\frac{\partial f}{\partial y} - \frac{\partial f}{\partial x}\frac{\partial f}{\partial y} - \frac{\partial f}{\partial x}\frac{\partial f}{\partial x} - \frac{\partial f}{\partial x}\frac{\partial f}{\partial y} + \frac{\partial f}{\partial x}\frac{\partial f}{\partial y} + \frac{\partial f}{\partial x}\frac{\partial f}{\partial y} + \frac{\partial f}{\partial y}\frac{\partial f}{\partial y}$$

$$u = (a-r) f \qquad v = (a-r) f$$

$$= \frac{\partial \varphi}{\partial x} + \frac{\partial \psi}{\partial y} \qquad = \frac{\partial \varphi}{\partial y} - \frac{\partial \psi}{\partial x}$$

$$(a-r) \left(\frac{\partial f}{\partial x} + \frac{\partial f}{\partial y}\right) = \frac{x f + y f}{R}$$

$$f = \text{rediport of } \Phi(x + iy)$$

The General problem in two dimensions 24 = M(214 + 2214 + 244) + 34 (34 + 34) + 34 (34 + 34) 24 + 24 of of of oxy fr - dy der a= \(\left(\frac{\gr}{\gr} + \frac{\gr}{\gr} \right) - \frac{\gr}{\gr} \frac{\gr}{\gr} $\frac{\partial u}{\partial x} = \frac{\partial}{\partial x} \underbrace{\Phi}_{1} - \underbrace{v}_{2} \underbrace{\Phi}_{2} - \underbrace{\Phi}_{2} \underbrace{\partial v}_{3}$ $\frac{\partial u}{\partial y} = \frac{\partial \hat{\mathcal{D}}_1}{\partial y} - v \frac{\partial \hat{\mathcal{D}}_2}{\partial y} - \hat{\mathcal{D}}_2 \frac{\partial v}{\partial y}$ $\frac{2u}{\partial x} = \frac{2\bar{\ell}_1}{\partial x} - v \frac{\partial \ell_2}{\partial x} + \bar{\ell}_2 \left\{ -\bar{\ell}_2 \frac{\partial \bar{\ell}_1}{\partial y} + v \bar{\ell}_1 \frac{\partial \bar{\ell}_2}{\partial y} - \bar{\ell}_2 \frac{\partial v}{\partial x} \right\}$ 34 [1- \Pi] = 3\Pi + \Pi \{- \Pi \frac{3p}{3y} + \nu \Pi \frac{3p}{3y} - \pi \Big|

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h

If
$$v=0$$

$$\int = \frac{\partial u}{\partial y} \qquad \frac{\partial u}{\partial x} = 0$$
Will replication terms:
$$\nabla y - \mu \nabla \delta = 0$$

$$\frac{\partial x}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial^2 u}{\partial x^2 \partial y} + \frac{\partial^2 u}{\partial y^2} - \frac{\partial^2 u}{\partial x^2 \partial y} = 0$$

$$\frac{\partial x}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial^2 u}{\partial x^2 \partial y} + \frac{\partial^2 u}{\partial y^2} - \frac{\partial^2 u}{\partial x^2 \partial y} = 0$$

$$\frac{\partial x}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial^2 u}{\partial x^2 \partial y} + \frac{\partial^2 u}{\partial y^2} - \frac{\partial^2 u}{\partial x^2 \partial y} = 0$$

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$$\frac{\partial x}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial^2 u}{\partial x^2 \partial y} + \frac{\partial^2 u}{\partial y^2} - \frac{\partial^2 u}{\partial x^2 \partial y} = 0$$

$$\frac{\partial x}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial^2 u}{\partial x^2 \partial y} + \frac{\partial^2 u}{\partial y^2} - \frac{\partial^2 u}{\partial x^2 \partial y} = 0$$

$$\frac{\partial x}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial^2 u}{\partial x^2 \partial y} + \frac{\partial^2 u}{\partial y^2} - \frac{\partial^2 u}{\partial x^2 \partial y} = 0$$

$$\frac{\partial x}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial x}{\partial x} + \frac{\partial u}{\partial y} = 0$$

$$\frac{\partial x}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial x}{\partial x} + \frac{\partial u}{\partial y} = 0$$

$$\frac{\partial x}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial u}{\partial x} = 0$$

$$\frac{\partial x}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial u}{\partial x} = 0$$

$$\frac{\partial x}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial u}{\partial x} = 0$$

$$\frac{\partial u}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial u}{\partial x} = 0$$

$$\frac{\partial u}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial u}{\partial x} = 0$$

$$\frac{\partial u}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial u}{\partial x} = 0$$

$$\frac{\partial u}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial u}{\partial x} = 0$$

$$\frac{\partial u}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial u}{\partial x} = 0$$

$$\frac{\partial u}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial u}{\partial x} = 0$$

$$\frac{\partial u}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial u}{\partial x} = 0$$

$$\frac{\partial u}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial u}{\partial x} = 0$$

$$\frac{\partial u}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) \qquad \frac{\partial u}{\partial x} = 0$$

$$\frac{\partial u}{\partial x} = \mu \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right$$

$$\frac{1}{n}\frac{2}{3}(n^n) = \frac{9n}{2n} + \frac{4n}{2n} = \frac{1}{n^n}$$

$$\frac{1}{n}\frac{2}{3n}(n^n) = \frac{9n}{2n} + \frac{4n}{2n} = \frac{1}{n^n}$$

$$\frac{1}{n}\frac{2}{n}(n^n) = \frac{9n}{2n} + \frac{4n}{2n} + \frac{2}{n} = \frac{1}{n}$$

$$\frac{1}{n}\frac{2}{n}(n^n) = \frac{9n}{2n} + \frac{1}{n}\frac{2}{n} = \frac{1}{n}\frac{2n}{2n}$$

$$\frac{1}{n}\frac{2}{n}\frac{2}{n}\frac{2}{n} + \frac{1}{n}\frac{2}{n}\frac{2}{n}\frac{2}{n}\frac{2}{n}$$

$$\frac{1}{n}\frac{2}{n}$$

(k dv + w) u + k v du = gar du = k-1 gar bkr dr 1 du + dr =0 v k k-1 = b v= lt n t-K 2= (1-1) ga + Cn + Cn + = p 1-1 + 1 (1-k) 8 = 1 + 6x = 100 = 1 $C = \left[p_0 + (k-1) \frac{p_0}{f_0}\right] a^{\frac{k-1}{K}}$ Pk-1 = (1-K) gaz 1 + [po +(K-1) ga] (n) k $= \rho_0 \left(\frac{n}{a}\right)^{\frac{1}{n-1}} + \left(1-\kappa\right) \frac{\rho_0}{\sigma_0} \left[\frac{1}{a} \left(\frac{n}{a}\right)^{\frac{1}{n-1}}\right]$ $= \rho_0 / \left(\frac{n}{a}\right)^{\frac{1-k}{k}} + \left(1-\kappa\right) \frac{\alpha^2}{cn} \left[1 - \left(\frac{n}{a}\right)^{\frac{1}{k}}\right]$ May Vino Port of State RT=pr= k= cp = 1

Transformation of general special equations (for notational for symmetry) in polar coordinates r go & g 2 = axis of symmetry = rest x=xztup y= raid sig Arts 20 20 Equality of Continuity: 34 + 30 + 30 =0 n: 6 nitury Du of trop dy interp - du air = du マニらっかかり Du sitting + In an the sight and = du # = 6 w/t Dr and - Du sit New vortable: p= lutor du = de niduig - Mokassagang + de undusy + pring Du = It officer + It marying - h sind mind Ja = 32 out my - 34 ridary

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Dr = 34 sind cop sig + 24 and repurp 1 - the sing corp do = of sing + of and sing + from Dr = It end sig - It sid sig Dw = Dw 250 wy + Dr momp DW = Dr nt sp + Dr ent sip $\frac{\partial x}{\partial x} = \frac{\partial x}{\partial x} \cos \theta \qquad - \frac{\partial x}{\partial x} = \frac{x}{2}$ in for legenous ine Du = de sind mig + & wo der g + & sind g = 36 sind rigury + & (with ry ung) = sin drigues (36 - 6) Dur 26 sint sig + 6 astring + 2 asp 72 = 26 with ++ 2 sind de - Carrier - Francis U satt-u The State of the American of the State of th 1 - 35 - 5 1 1 5 mm - 6 in = 0.4 = [35 - 6 m + , + w. y 1 : 125 - 5] so 7 son 6 + 6 元=第三章 1. - 125 - 6 20 4 - 52

Reduction of general equations to one defential equation 6= 7U+ enely 2762 + V6 curl 6 = VP - pr tour 8 end V6 aul6 = - p end 36 =(cw16)7)6-(67)anl6} (bV)a = Viourla. b) - Va ab curl V6 curl6 = V(curl 6. 6) - V(curl 6) - V 6 curl6 + V 6 curl6 Les Peurle 2 7 6 aurl6 = 6 mills Ptr + to V6 aurl6 = 26 male 16 Ph = 6 and 576

$$\frac{1}{\sqrt{2n}} = -\frac{1}{\sqrt{2n}} = -\frac{1}{\sqrt{2n}} = \frac{1}{\sqrt{2n}} = \frac{1}{\sqrt{2n}}$$

Folls dagge die Mohne du Whowe oge Certifiyellesses

drouble von (mt vochse du Wh) via an Agrota $\frac{1}{\rho} \frac{\partial t}{\partial x} = -\frac{ga^2}{n^2} + \omega (n-a) = kc \rho^{k-2} \frac{\partial \rho}{\partial x}$ $\frac{kc}{k-1} \left(\rho^{k-1} \frac{k}{n-1}\right) = \frac{1}{2} \left(\frac{a-n}{n-1}\right)^2 = (a-n) \left[\frac{ga}{n} - \frac{\omega}{2}(a+n)\right]$ $\omega = \frac{n}{2} \frac{1}{365.24.60.60} \qquad \omega = \frac{n}{2} \frac{65660m}{365.24.36} \frac{10640}{6.73.3}$ = 34.54 = 27Nacht sehr weng one.

beign widt fans juneau ; eignthick: $\frac{1}{p} \frac{\partial L}{\partial p} = -\frac{ga^2}{2^2} + \omega_1 = \frac{1}{p} \frac{ga^2}{2^2} + \omega_2 = \frac{1}{p} \frac{ga^2}{2^2} + \frac$

Samit pfin =00 pro vied minste sin: $\frac{k-1}{4}$ a g fo = 1 $\frac{p_0}{p_0} = RT_0 = \frac{0.0013}{100} = 0.000013 = 1.3.10$ $\frac{k-1}{4}$ a g = $\frac{0.4}{1.4}$ 6,366,000. $98^{\frac{3}{4}} = 17,800,000$

 $\frac{1}{18} = \frac{6.4}{17} = \frac{6.366000}{1782} = 17.800.000$ $\frac{1}{18} = \frac{1}{106} = 5.5.10^{8}$

Es miste dos di Impratue 1200 du pring litig

Dream of energy gro mit of time:

gen +-- =0

$$dir(p6) = \frac{d(p6)}{dn} + 2\frac{p6}{n} = 0 = p \left[\frac{d6}{dn} + \frac{26}{n} \right] + 6\frac{dp}{dn} = 0$$

$$dis6$$
 $dis6 = -\frac{6}{6} d\rho$

Falls men aminunt, dess der Unterschad errichen servstetischen und also dynami, den druck en venachlässigen jest; dagge der Temperaturenthen I du Derryez en bin has Atyn: $\frac{1}{\rho} \frac{\partial \mu}{\partial x} = \frac{g a^2}{x^2}$ $\begin{cases} \text{Stropp } \theta \text{ Annohme:} \\ \text{Stropp } \text{sich von du Endbuffiche ans in Zforton} \\ \text{mit du Suchu. c aufvarts . while Time nothing at$ mit der Sentro. a anfræts; od he Ting, mittely entra 6=Radiolgentus. 6a=c Solat = Aus shehung what was Rechnique with and between = Ealls kinn Roby vone, so war die and glich P gaidr = All 1 2 t + c 30 + m dr ., ., har. My = 0, 12 - 1, - el does a set in de = 30 6 n= Rpt $\frac{1}{9}\left[\frac{\partial\theta}{\partial x}\rho + \theta\frac{\partial\rho}{\partial x}\right] = \frac{9a^2}{n^2}$ []. $\frac{\partial \theta}{\partial n} = \frac{AR + \theta}{c p^2 \partial n} - \frac{4A}{3A} \left(\frac{b}{p^2 n^2}\right)^2 \left[\frac{\partial p}{\partial n} + \frac{3p}{n^2}\right]^2 p^2$ $= \frac{AR}{c} \frac{\partial}{\partial \rho} \frac{\partial}{\partial r} - \frac{4}{3} \frac{A\mu}{c} \frac{b}{r^2 \rho^4} \left[\frac{\partial}{\partial r} + \frac{3\rho}{r} \right]^2 \mathbb{D}.$

Work done by internal fixtion:

$$2\left[\frac{36}{32} - \frac{6}{n}\right] \left[\sin^4\theta(\omega^{4}\varphi + \sin^{4}\varphi) + \omega^{4}\theta\right] + 6\frac{6^{2}}{n^{2}} + 4\frac{6}{n}\left[\frac{36}{2n} - \frac{6}{n}\right]$$

$$+4\left[\frac{36}{2n} - \frac{6}{n}\right]^{2} \left[\sin^4\theta(\omega^{4}\varphi + \sin^4\varphi) + \sin^4\theta\sin^4\varphi + \frac{1}{3}\left[\frac{36}{2n}t^{\frac{2}{3}}\right]^{2}$$

$$=2\left[\frac{\partial 6}{\partial r}-\frac{6}{r}\right]^{2}\left[\sin^{4}\theta\left[\sin^{4}\varphi+2\sin^{4}\varphi\sin^{4}\varphi+\sin^{4}\varphi\right]+2\sin^{4}\theta\sin^{4}\theta+\sin^{4}\theta\right]+\cdots$$

$$=2\left[\frac{36}{32}-\frac{6}{2}\right]^{2}+6\frac{6}{2^{2}}+4\frac{6}{2}\left[\frac{36}{22}-\frac{6}{2}\right]-\frac{2}{3}\left[\frac{36}{32}+2\frac{6}{2}\right]^{2}$$

$$= \left[\left(\frac{36}{3n} \right)^{2} \left[2 - \frac{2}{3} \right] + \frac{36}{3n} \cdot \frac{6}{n} \left[-4 + 4 - \frac{8}{3} \right] + \frac{6^{2}}{n^{2}} \left[2 + 6 - 4 - \frac{8}{3} \right] \right]$$

$$= \left(\frac{26}{22}\right)^2 \frac{4}{3} + \frac{26}{22} \cdot \frac{6}{2} \cdot \frac{8}{3} + \frac{6^2}{2^2} \cdot \frac{4}{3} = \frac{4}{3} \left[\frac{26}{22} - \frac{6}{2}\right]^2$$

$$6 = \frac{1}{6} =$$

$$\vec{\Phi} = -\frac{4}{3} r \left[\frac{b}{\rho^{\frac{1}{2}} h^{\frac{3}{2}}} \frac{3\rho}{2} + \frac{2b}{\rho h^{3}} + \frac{b}{\rho h^{3}} \right]^{2} = -\frac{4}{3} \left(\frac{b}{\rho^{\frac{1}{2}} h^{2}} \right)^{2} \mu \left[\frac{3\rho}{2h} + 3\frac{\rho}{h} \right]^{2}$$

Transformation of gnotions of Notion for spherical symmetry: Continuity: pbr2= cont. ルシャナンシャナンシャナンシュニトーララスナガラスのからナクト 6 (36-6) sin3 t us & + Astony sing + start usy + 62 sin d us 4 = 6 (26 - 6) sin th us + 62 - 2 - 2 -Lis6 = - 6 de dis dis moune $= -\frac{\partial}{\partial r} \left(\frac{\partial}{\partial r} \frac{\partial r}{\partial r} \right)$ 1x = situsp. [36 - 2 32 + 2] not wig + 36 1 - 6 3 in = n't sig | 36 - 1 25 + 5] sin't sig usp Din = ent [] sid with any Ph = [or - i or + [] = oung + wound 2 = on - n] = 26 sintung + oig 2 with right] + alsignon y cosp + sol milling - sip - sid (in thing - sitting) = [3]

Equation of Molion: 3 (6 oc) + p [36 + 2 on] 6 36 = R - p 3/2 1/3p + Diogoning woony 06 n= c $\frac{36}{3n^2} = -\frac{2c}{\rho n^3} - \frac{c}{\rho n^2} \frac{3c}{\rho n} \left| \frac{3}{3n} \left(\frac{6}{\rho} \frac{3\rho}{n} \right) - \frac{36}{3n} \left(\frac{5}{\rho} \frac{3\rho}{n} \right) - \frac{6}{\rho^2} \left(\frac{3\rho}{3n} \right)^2 + \frac{6}{\rho} \frac{3\rho}{3n} \right|$ -2e¹ = R - 1 32 - 4 () - 2c 3p - c 3p () + c 3p) + 6 p / 1 ... When $\mu = 0$: $\mu = \frac{2}{4\pi} e^{\kappa}$ $\frac{2}{2\pi} = \frac{1}{4\pi} (e^{\kappa-1}) \frac{2}{2\pi}$ $\frac{e^2}{2\pi} \frac{2}{2\pi} \frac{d}{dx} = \frac{2}{4\pi} (e^{\kappa-1}) \frac{2}{2\pi} = \frac{2}{4\pi} (e^{\kappa-1})$ 1 2 - 2 K -1 p + want # = 2 (p2 2 A 2) = 4K (p - p. 8-1) TATA TATOR TO PORT OF THE PARTY sint with way $= \left[\frac{\partial \mathcal{L}}{\partial z} - \frac{\mathcal{L}}{z}\right] \frac{1}{z} \left[2\left(\sin\theta \, \omega^2\theta \, \omega^2\phi + \cos\theta \, \omega^2\theta \, \omega^2\phi + \cos\phi \, (\sin^2\theta - \sin\theta \, \omega^2\theta) + \sin^2\theta \, (\sin^2\phi - \cos\phi \, \omega^2\phi) \right] + \sin^2\theta \, (\sin^2\phi - \cos\phi \, \omega^2\phi) \right]$

u= 6 ery s= 8

$$\nabla u = un\varphi \sin \theta \left[\frac{36}{n^2} + \frac{2}{n} \frac{36}{n^2} - \frac{26}{n^2} \right]$$

$$\frac{36}{31} + 2\frac{36}{31} = \frac{36}{31} + \frac{26}{31} = \frac{36}{91} = \frac{36}{91}$$

Ignotion of Motion for special symmetry:
$$6\frac{\partial 6}{\partial r} = R - \frac{1}{\rho} \frac{\partial 4}{\partial r} - \frac{n}{3\rho} \frac{\partial}{\partial r} \left(\frac{6}{\rho} \frac{\partial \rho}{\partial r}\right) + \frac{n}{\rho} \left[\frac{36}{3r^2} + \frac{2}{r} \frac{36}{3r} - \frac{26}{r^2}\right]$$

$$\rho 6r^2 = wnt$$

$$\Rightarrow = -\frac{3}{2r} \left(\frac{6}{\rho} \frac{\partial \rho}{\partial r}\right)$$

$$6\frac{36}{3r} = R - \frac{1}{\rho} \frac{\partial 4}{\partial r} - \frac{4n}{3\rho} \frac{\partial}{\partial r} \left(\frac{6}{\rho} \frac{\partial \rho}{\partial r}\right)$$

$$\frac{\partial \theta}{\partial n} + \frac{\theta}{\rho} \frac{\partial \rho}{\partial n} = \frac{2^{2}}{Rn^{2}}$$

$$= \frac{AR}{c} \frac{\theta}{\rho} \frac{\partial \rho}{\partial n} - \frac{4}{3} \frac{An}{c} \frac{\delta}{n^{2}\rho^{4}} \left[\frac{\partial \rho}{\partial n} + \frac{\partial \rho}{\partial n} \right]^{2}$$

$$= \frac{AR}{c} \frac{\theta}{\rho} \frac{\partial \rho}{\partial n} - \frac{4}{3} \frac{An}{c} \frac{\delta}{n^{2}\rho^{4}} \left[\frac{\partial \rho}{\partial n} + \frac{\partial \rho}{\partial n} \right]^{2}$$

$$= \frac{\partial}{\partial n} \left[1 + \frac{AR}{c} \right] = \frac{\partial^{2}}{Rn^{2}} + \frac{4}{3} \frac{An}{c} \frac{\delta}{n^{2}\rho^{4}} \left[\frac{\partial \rho}{\partial n} + \frac{\partial \rho}{\partial n} \right]^{2}$$

$$= \frac{\partial}{\partial n} \left[1 + \frac{AR}{c} \right] = \frac{\partial^{2}}{Rn^{2}} + \frac{4}{3} \frac{An}{c} \frac{\delta}{n^{2}\rho^{4}} \left[\frac{\partial \rho}{\partial n} + \frac{\partial \rho}{\partial n} \right]^{2}$$

$$= \frac{\partial^{2}}{\partial n} - \frac{1}{c} \left[\frac{\partial^{2}}{\partial n} + \frac{\partial^{2}}{\partial n} \right]^{2}$$

$$= \frac{\partial^{2}}{Rn^{2}} - \frac{1}{c} \left[\frac{\partial^{2}}{\partial n} + \frac{\partial^{2}}{\partial n} \right]^{2}$$

$$= \frac{\partial^{2}}{Rn^{2}} - \frac{1}{c} \left[\frac{\partial^{2}}{\partial n} + \frac{\partial^{2}}{\partial n} \right]^{2}$$

$$= \frac{\partial^{2}}{\partial n} - \frac{1}{c} \left[\frac{\partial^{2}}{\partial n} + \frac{\partial^{2}}{\partial n} \right]^{2}$$

$$= \frac{\partial^{2}}{\partial n} - \frac{1}{c} \left[\frac{\partial^{2}}{\partial n} + \frac{\partial^{2}}{\partial n} \right]^{2}$$

$$= \frac{\partial^{2}}{\partial n} - \frac{1}{c} \left[\frac{\partial^{2}}{\partial n} + \frac{\partial^{2}}{\partial n} \right]^{2}$$

$$= \frac{\partial^{2}}{\partial n} - \frac{1}{c} \left[\frac{\partial^{2}}{\partial n} + \frac{\partial^{2}}{\partial n} \right]^{2}$$

$$= \frac{\partial^{2}}{\partial n} - \frac{1}{c} \left[\frac{\partial^{2}}{\partial n} + \frac{\partial^{2}}{\partial n} \right]^{2}$$

$$= \frac{\partial^{2}}{\partial n} - \frac{1}{c} \left[\frac{\partial^{2}}{\partial n} + \frac{\partial^{2}}{\partial n} \right]^{2}$$

$$= \frac{\partial^{2}}{\partial n} - \frac{1}{c} \left[\frac{\partial^{2}}{\partial n} + \frac{\partial^{2}}{\partial n} \right]^{2}$$

$$= \frac{\partial^{2}}{\partial n} - \frac{1}{c} \left[\frac{\partial^{2}}{\partial n} + \frac{\partial^{2}}{\partial n} \right]^{2}$$

$$= \frac{\partial^{2}}{\partial n} - \frac{1}{c} \left[\frac{\partial^{2}}{\partial n} + \frac{\partial^{2}}{\partial n} \right]^{2}$$

$$= \frac{\partial^{2}}{\partial n} - \frac{1}{c} \left[\frac{\partial^{2}}{\partial n} + \frac{\partial^{2}}{\partial n} \right]^{2}$$

$$= \frac{\partial^{2}}{\partial n} - \frac{1}{c} \left[\frac{\partial^{2}}{\partial n} + \frac{\partial^{2}}{\partial n} \right]^{2}$$

$$= \frac{\partial^{2}}{\partial n} - \frac{1}{c} \left[\frac{\partial^{2}}{\partial n} + \frac{\partial^{2}}{\partial n} \right]^{2}$$

$$= \frac{\partial^{2}}{\partial n} - \frac{\partial^{2}$$

I st cond stretching out from 0 to as; equal masses 1, 2, in equal distances; point o begins to move : 6 = a sixt; how inly the motion of egitation representatively squad out on the chord?

The fit the law of from the attracting forms between the said points $\frac{dk_1}{dk_2} = \text{His } \left(k_1 - k_0 \right) + f(k_2 - k_1)$ =-k(6,-6,)+k(6,-6,)=k(26,-6,-6,) $\frac{d \delta_{1}}{d l_{1}} = k \left(26_{2} - 6_{1} - 6_{3} \right) = -k \left(6_{1} - 6_{2} \right) + k \left(6_{2} - 6_{3} \right)$ $\frac{d 6_3}{d N} = k (26_3 - 6_2 - 6_4) = -k (6_2 - 6_3) + k (6_3 - 6_4)$ $\leq \frac{d^{2}6_{n}}{dh^{2}} = k\left(6_{1}-6_{0}\right)$ $\frac{d(6_0-6_1)}{dx} = f + k(6_0-6_1) - k(6_1-6_2)$ $\frac{d^{2}}{dt} - (6_{1} - 6_{2}) = k(-6_{0} + 36_{1} + 36_{2} + 6_{3}) = k \left[-(6_{0} - 6_{1}) + 2(6_{1} - 6_{2}) + -(6_{2} - 6_{3}) \right]$ $\frac{d^4}{dt^4}(6_{\circ}-6_{\circ}) = \frac{d^2}{dt^2} + k \frac{d^2}{dt^2}(6_{\circ}-6_{\circ}) + k (6_{\circ}-6_{\circ}) + 2 \frac{d^2}{dt^2}(6_{\circ}-6_{\circ}) + 2 \frac{d^2}{dt^2}(6_{\circ}-6_{\circ}) + k (6_{\circ}-6_{\circ}) + k ($ - k(62-63)

$$2\frac{d^{2}6_{1}}{dt^{2}} - \frac{d^{2}6_{3}}{dt^{2}} - \frac{h^{2}6_{3}}{dt^{2}} = h^{2}(46_{2} - 26_{1} + 26_{3} - 26_{1} + 6_{0} + 6_{1} - 26_{3} + 6_{4}) = \frac{1}{4}\frac{d^{4}6_{1}}{dt^{4}}$$

$$= h^{2}(6_{0} - 46_{1} + 66_{2} - 46_{3} + 6_{4}) = \frac{1}{4}\frac{d^{4}6_{1}}{dt^{4}}$$

$$\frac{dh}{dh} \left(\frac{dh}{dh} \right)^{2} dh = \frac{2}{2} = \frac{d(\frac{dh}{dh})^{2} - 2\int d\frac{dh}{dh} \frac{dh}{dh} dh}{dh} + \frac{2}{2}\int d\frac{d}{dh} \left(\frac{d^{2}}{dh^{2}} \right) dh \\
= \frac{d(\frac{dh}{dh})^{2} - 2\int d\frac{dh}{dh} dh}{dh} + \frac{2}{2}\int d\frac{d}{dh} \left(\frac{d^{2}}{dh} \right) dh \\
= \frac{d(\frac{dh}{dh})^{2} - 2\int d\frac{dh}{dh} dh}{dh} + \frac{2}{2}\int d\frac{d}{dh} \left(\frac{d^{2}}{dh} \right) dh \\
= \frac{d^{2}}{dh} \left(\frac{dh}{dh} \right)^{2} dh + \frac{2}{2}\int d\frac{dh}{dh} dh + \frac{2}{2}\int d\frac{dh}{dh} dh + \frac{2}{2}\int d\frac{dh}{dh} dh + \frac{2}{2}\int d\frac{dh}{dh} dh \\
= \frac{d^{2}}{dh} \left(\frac{dh}{dh} \right)^{2} dh + \frac{d^{2}}{dh} \left(\frac{dh}{dh} \right) dh + \frac{d^{2}}{dh} \left(\frac{dh}{dh} \right) dh + \frac{d^{2}}{dh} dh \\
= \frac{d^{2}}{dh} \left(\frac{dh}{dh} \right)^{2} dh + \frac{d^{2}}{dh} \left(\frac{dh}{dh} \right) dh + \frac{d^{2}}{dh} \left(\frac{dh}{dh} \right) dh + \frac{d^{2}}{dh} \left(\frac{d^{2}}{dh} \right) dh + \frac{d^{2}}{d$$

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-6 s)

$$\frac{dG_{n}}{dt} = \frac{1}{dt} \begin{bmatrix} 26_{n} & dG_{n} - 6_{n}, \frac{dG_{n}}{dt} - 6_{n+1} & dG_{n} \end{bmatrix}$$

$$\frac{1}{2} \frac{d}{dt} \frac{(dG_{n})}{dt} = \frac{1}{2} \frac{1}{2} \frac{(G_{n})}{dt} - \frac{1}{2} \frac{1}{2} \frac{(G_{n})}{dt} - \frac{1}{2} \frac{1}{2} \frac{(G_{n})}{dt} = \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{(G_{n})}{dt} = \frac{1}{2} \frac{1}{2}$$

$$\frac{\partial L}{\partial t^2} = k \leq 2 \left(\frac{\partial l_n}{\partial l}\right)^2 + 2 \delta_n \left(\frac{\partial l_n}{\partial l}\right)^{n} - \frac{\partial \delta_{n-1}}{\partial l} \frac{\partial \delta_n}{\partial l} - \delta_{n-1} \frac{\partial \delta_n}{\partial l} - \frac{\partial \delta_n}$$

$$= 8kI - \frac{2}{dh} \left(\frac{db_{n-1}}{dh} + \frac{db_{n+1}}{dh} \right)_{+} - \frac{2}{6n-2} - \frac{6}{6n-3} - \frac{6}{6n-1}$$

$$+ \frac{6}{6n-2} \left(26n_{n-1} - \frac{6}{6n-2} - \frac{6}{6n} \right) + \frac{6}{6n} \left(26n_{n-1} - \frac{6}{6n-2} - \frac{6}{6n} \right)$$

$$- \frac{2}{6n-1} \left(26n_{n-1} - \frac{6}{6n-2} - \frac{6}{6n+1} \right) + \frac{6}{6n+2} \left(26n_{n-1} - \frac{6}{6n-2} - \frac{6}{6n+2} \right)$$

$$+ \frac{6}{6n+1} \left(26n_{n-1} - \frac{6}{6n-2} - \frac{6}{6n+2} \right) + \frac{6}{6n+3} \left(26n_{n-1} - \frac{6}{6n+2} - \frac{6}{6n+2} \right)$$

$$+ \frac{6}{6n+2} \left(26n_{n-1} - \frac{6}{6n+2} - \frac{6}{6n+2} - \frac{6}{6n+2} \right) + \frac{6}{6n+2} \left(\frac{26}{6n+2} - \frac{6}{6n+2} - \frac{6}{6n+2} \right)$$

 $= 1 2 \le 6_n 6_{n+1} - 6_n^2 - 6_n 6_{n+2} + 26_n 6_{n+1} - 6_n 6_{n+2} - 6_n^2$

$$6_{1} = \{(1) = \frac{1}{4}(0) + \frac{1}{4}\frac{1}{4}(0) + \frac{1}{4}\frac{1}{4}\frac{1}{4}(0) + \dots$$

$$= 6_{1}(0) + \frac{1}{4}\frac{1}{4}\frac{1}{4}(0) + \frac{1}{4}$$

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$$\frac{d^{3}6_{2}(0)=0}{dn^{3}} = k \left(\frac{2}{d6_{1}} + \frac{d6_{1}}{dn} - \frac{d^{3}6_{2}}{dn^{3}} \right) = 0$$

$$\frac{d^{4}6_{2}(0)=k}{dn^{3}(0)=k} \left(\frac{2}{dn} + \frac{d6_{1}}{dn} - \frac{d^{3}6_{2}}{dn^{2}} \right) = +k^{2}6_{0}(0)$$

$$\frac{d^{5}6_{2}(0)=k}{dn^{3}(0)=k} \left(\frac{2}{dn} + \frac{d^{3}6_{2}}{dn} - \frac{d^{3}6_{2}}{dn^{2}} - \frac{d^{3}6_{2}}{dn^{2}} \right) = +k^{2}6_{0}(0)$$

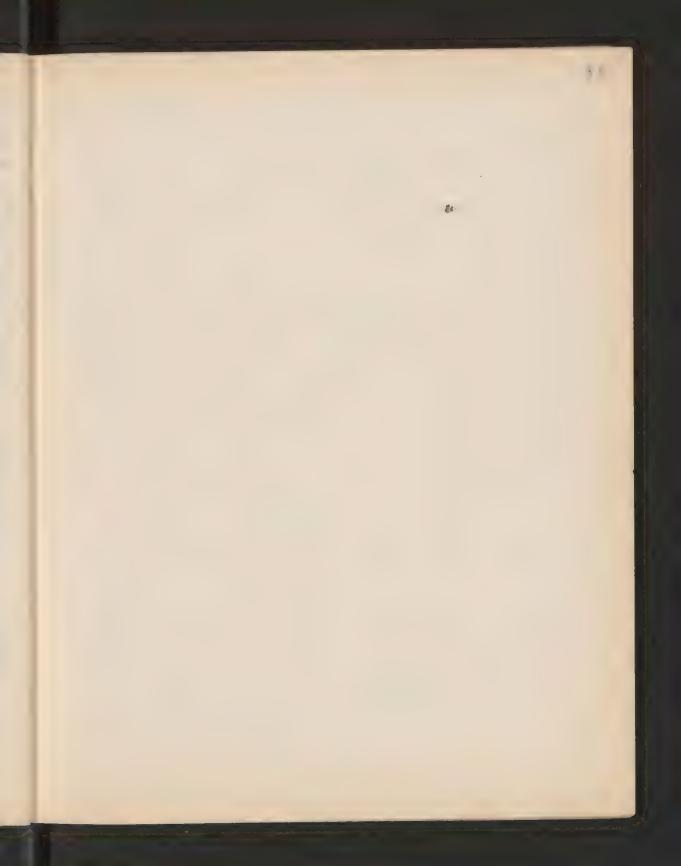
$$\frac{d^{6}6_{2}(0)=k}{dn^{6}(0)=k} \left(\frac{2}{dn} + \frac{d^{6}6_{2}}{dn} - \frac{d^{6}6_{2}}{dn^{2}} - \frac{d$$

$$d^{5}_{63} = d^{5}_{63} = 0$$

$$d^{6} = d^{5}_{63} = d^{4}(263 - 62 - 64) = -k^{3}_{63}.$$

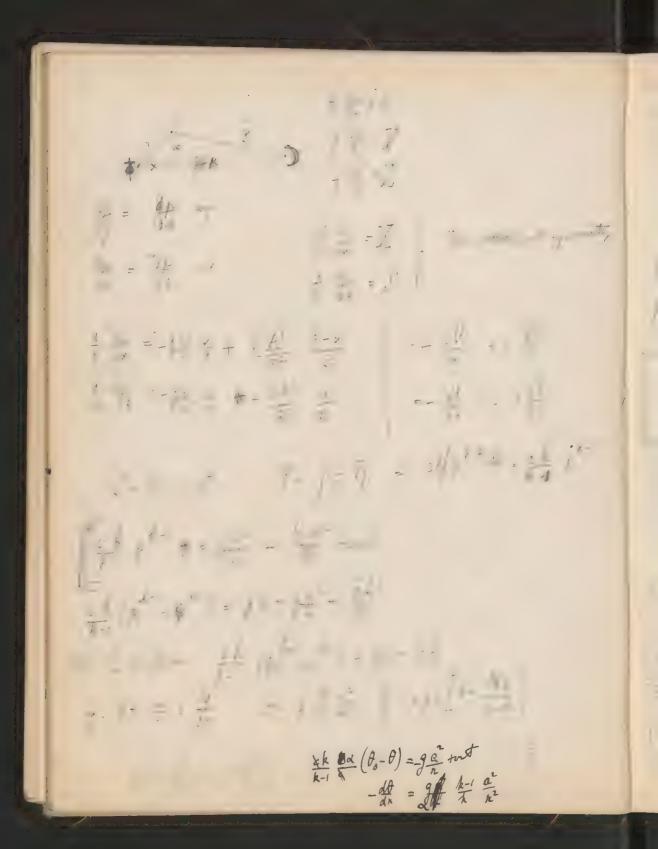
$$d^{7}_{7} = k d^{5}(263 - 62 - 64) = -k^{4}_{7} d^{6}_{63}.$$

$$d^{8}_{7} = k d^{6}(263 - 62 - 64) = -2k^{4}_{7}_{63}.$$

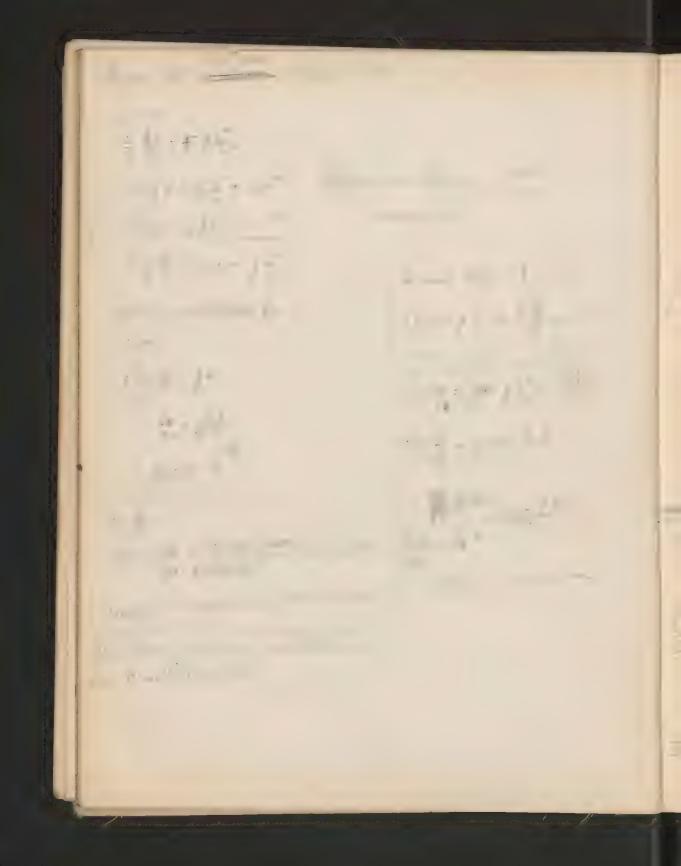


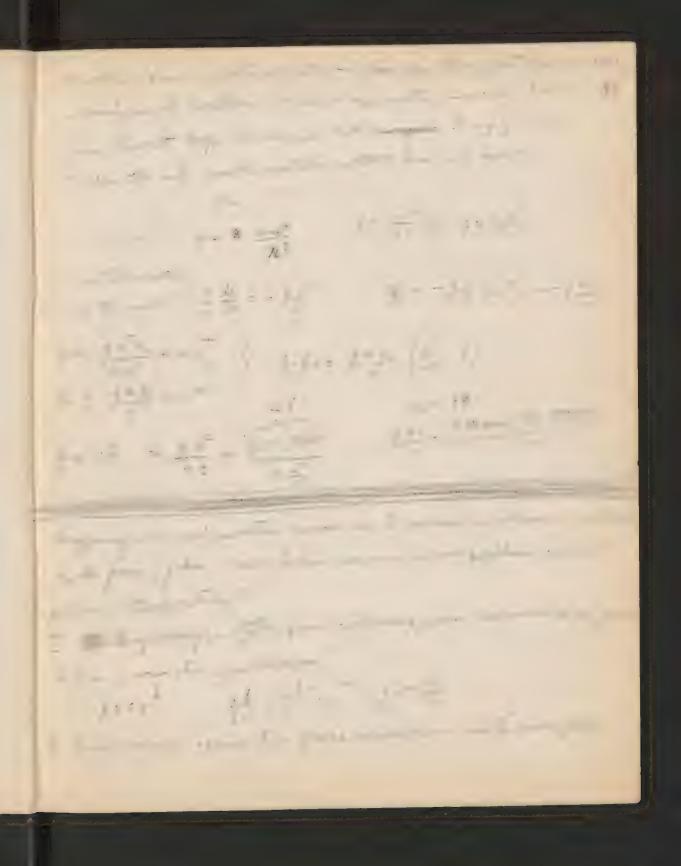
The second of the second - March 1 /2 - 154 - , - / 5

== 10 = 10 : - 2 eh = - 9 h 2 the state of the s e chair = 1 an rt de



+-de = 1-k 0 x-k



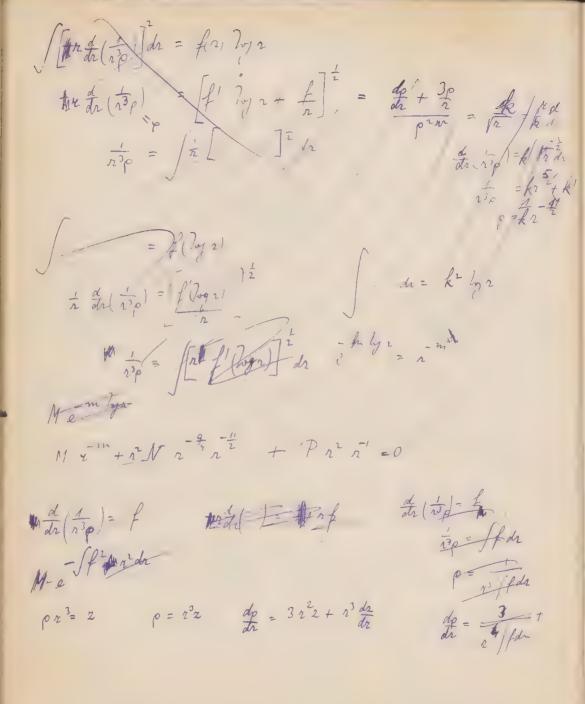


W/ 1/2 / of some will all K= 1'. 15, - 7 - 211 -- presentation - · · · · · 1

4:pite of the second state of the 4 m - 4 m / - 1 / (= = =) - , *†*- - , *†*-----**∮**- . . . , g- - : :- ·=

Our prevodentia orgita i zantid higre best advosi de mozel duraje torne 1). p 622 = unit = p. 6, 22 = b = for do 0.0013. 580 2). f = fo po $=\frac{98}{0.36}=270$ J. 0 = - gai - - - dr - 4m d (o do) 7), p 6,2 [c do + A , die] + A , die] + 3e] th 3). $\frac{\partial^2}{\partial x^2} + \frac{1}{\alpha} \frac{\partial}{\partial x} \left[\frac{\partial}{\partial x} \left[\frac{\partial}{\partial x} \right] - \frac{\partial}{\partial x} \frac{\partial}{\partial x} \left[\frac{\partial}{\partial x} \frac{\partial}{\partial x} \left[\frac{\partial}{\partial x} \frac{\partial}{\partial x} \right] \right] = 0$ = 4 1 6 de + 3 e | 2 $b c \frac{d\theta}{dr} = Ab \alpha \frac{\theta}{\rho} \frac{d\rho}{dr}$ $\frac{1}{\rho^{2}n^{2}} \left(\frac{d\rho}{dr} + \frac{3\rho}{n} \right) = \frac{d}{dr} (\rho n^{3}) = \frac{1}{\rho^{2}n^{2}} \left(\frac{d\rho}{\rho n^{3}} \right) = -n \left(\frac{1}{\rho^{2}n^{3}} \right) = -n \left(\frac{1}{\rho^{2}n^{3}} \right)$ 3). g2 + od dr(80) - 400 dr lon dr =) $\frac{d\theta}{dr} - A \propto \frac{\theta}{\rho} \frac{d\rho}{dr} - \frac{4r}{3} \frac{\theta}{\rho^4 n^4} \left[\frac{d\rho}{dr} + \frac{3\rho}{n} \right] = 0$ 4). : cdb = A do + + 4+ b do + 30 - 1 2 c by the tent = |.

e ly θ + wnot = $A \propto ly \rho + \frac{7r^{\frac{1}{2}}}{3r} \left[\left[\frac{1}{\rho^{2} r^{2}} \left(\frac{d\rho}{dr} + \frac{3\rho}{r} \right) \right] dr$ Zenvedhyge toerce (novemme (3): $\frac{\rho^2}{n^2} + \frac{\alpha}{\rho} \frac{d}{dn} (\rho \theta) = 0 = \frac{g e^2}{n^2} + \frac{d\theta}{dn} + \alpha \frac{\theta}{\rho} \frac{d\rho}{dn}$ $\operatorname{cnt} \circ \theta^{c} = e^{-2\pi i \frac{4\pi i}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} } = e^{-2\pi i \frac{\pi}{3} \int_{-\infty}^{\infty} \left(\frac{\partial}{\partial x} \right)^{2} = e^{-2\pi i \frac{\pi}{3} } = e^{-2\pi i \frac{\pi}{$ count 100=0 antipe = 6 nt. D = P & Tic J. 0= 9 a + # / A & p dp + 2 p dp + 3 p r c dp + 3 p r c dp + 3 p dp P e gål + 2 0 de (42+x) + 7 fx 2 (16 + 30) = ()



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 $\frac{1}{2} \left[\frac{1}{2} \frac{d}{dx} \left(\frac{1}{2} \frac{dx}{dx} \right) \right]^{2} dx = \frac{1}{2} \frac{1}$

Foursedby's - oply torno $y \neq q$ implientage y = 3: $\begin{pmatrix} \frac{1}{4} \end{pmatrix}^{\frac{1}{4}} = \begin{pmatrix} \frac{1}{4} \\ \frac{1}{4} \end{pmatrix}^{\frac{1$

=A = A

1).
$$f = \alpha \theta \rho$$

1).
$$h = \alpha \theta p$$

1). $0 = -\frac{g\alpha}{x} - \frac{1}{p} \frac{dy}{dx} + \frac{4y}{3p} \frac{d^26}{dx}$

2). $0 = -\frac{g\alpha}{x} - \frac{1}{p} \frac{dy}{dx} + \frac{4y}{3p} \frac{d^26}{dx}$

2). $p = -\frac{g\alpha}{x} - \frac{1}{p} \frac{dy}{dx} + \frac{d^26}{p^3} \frac{dx}{dx}$

2). $p = -\frac{g\alpha}{x} - \frac{1}{p} \frac{dy}{dx} + \frac{1}{p^3} \frac{dx}{dx}$

4). $p = -\frac{g\alpha}{x} - \frac{1}{p} \frac{dy}{dx} + \frac{1}{p^3} \frac{dx}{dx}$

2) $p = -\frac{g\alpha}{x} - \frac{1}{p} \frac{dy}{dx}$

4). $p = -\frac{g\alpha}{x} - \frac{1}{p} \frac{dy}{dx} + \frac{1}{p} \frac{dx}{dx}$

3).
$$\sqrt[4]{\frac{d\theta}{dx}} + \sqrt[4]{\frac{d\theta}{dx}} = \frac{4}{3} \int_{\rho}^{\rho} \frac{d\theta}{dx} \left(\frac{d\theta}{dx}\right)^{2}$$
2). $\partial_{2} - \frac{ge^{2}}{2x^{2}} - \frac{de}{\rho} \left(\frac{d\theta}{dx} + \rho \frac{d\theta}{dx}\right) + \frac{4}{3} \int_{\rho}^{\rho} \frac{d^{2}}{dx} \left(\frac{1}{\rho}\right)$

$$2J. 0=-\frac{ga}{2x}-\frac{6}{3}\frac{d}{dx}\left(\frac{\alpha\theta k}{6}\right)-\frac{4}{5}\frac{6}{6}\frac{d^{2}6}{dx}$$

3).
$$\frac{dt}{dx} + \frac{dt}{dx} = \frac{4}{3} \int_{-8}^{4} \left(\frac{d^{16}}{dx^{10}} \right)^{2}$$

3).
$$c = \frac{1}{3} \frac{d\theta}{dx} + \frac{d\theta}{dx} = \frac{4}{3} \frac{d\theta}{dx} + \frac{d\theta$$

$$0 = -\frac{ga^2}{x^2} - \left(\lambda + \frac{c}{A}\right) \frac{d\theta}{dx} + \frac{1}{3} \left(\frac{3}{ax^2}\right)$$

$$\frac{c}{A} \log \theta + \alpha \log 6 = \sqrt{\frac{6}{3}} \sqrt{\frac{1}{6}} \left(\sqrt{\frac{6}{6}} \right)^{\frac{1}{6}} dx - \sqrt{\frac{6}{6}} \sqrt{\frac{6}{6}} = \sqrt{\frac{6}{6}} \sqrt{\frac$$

$$\left(\frac{\partial}{\partial x}\right)^{\frac{c}{A}} \left(\frac{6}{6}\right)^{\frac{c}{A}} = \left(\frac{\partial}{\partial y}\right)^{\frac{c}{A}} \left(\frac{c}{c}\right)^{\frac{c}{A}}$$

$$\frac{g e^{2}}{x^{2}} = (\alpha + \frac{c}{A}) \frac{d\theta}{dx} + f \theta \left[-\frac{1}{A} \right] \frac{d\theta}{dx}$$

$$0 = (\alpha + \frac{c}{A}) \frac{d\theta}{dx} + f \theta \left[-\frac{1}{A} \right] \frac{d\theta}{dx}$$

$$= \frac{d}{dx} \left(\frac{d\theta}{dx} \right)$$

$$= \frac{d}{dx} \left(\frac{d\theta}{d$$

W

02 ger - 2+ e db + 10 6 dig + (ds)=0 = \$\frac{1}{ax}\$ (6 ds) 6' d'6' \ \ \frac{4}{3} \left(\frac{d6}{dk}\right)^2 6 de = cont x + cont! droi = 4 1 d6' 6= Vax+m Mar and a second by do' = 3 by 6' + unt 16' = " A 6' 3 de = A (D-Ax)4 6 = e 8 a A 6'-4 d6' = A dx ds = - and fan-1 $-36^{-\frac{1}{3}} = -3 + 4 \times$ $\frac{1}{6} = \left(3 + Ax\right)^3$ in du objetiente bledgist E de de = - & E dx $6 = \frac{27}{(B-Ax)^3}$ θ=0 6=(00)^{k-1} de de alla weren $\theta = 0$ with $\frac{d\theta}{dx}$ show entitlish and int, so muss $\frac{d\theta}{dx} < 0$ sein also a > - de mid 2002 6=0? und the endlich position

Wenn degg = 0 = 0 do due von hisheren Only 0 so kann 20. 6= 00 md (46) von hisher only 0 so kann 20. 6= 00 md (46) von hisher only 0 so kann 20. 6= 00 md (46) von hisher only 0 so kann 20. 6= 00 md (46) von hisher only 0 und his von the only 0 und de und de und bed the so wind the

$$\begin{aligned}
\theta &= \theta, \quad \left[\left(\frac{6}{6} \right)^{\alpha} f(x) \right]^{\frac{A}{2}} \\
&= \theta, \quad \frac{A}{2} \left[\left(\frac{6}{6} \right)^{\alpha} f(x) \right]^{\frac{A}{2}} \left[\frac{1}{f} \frac{df}{dx} - \alpha \left(\frac{6}{6} \right) \frac{df}{dx} \right] \\
&= \theta, \quad \frac{A}{2} \left[\left(\frac{6}{6} \right)^{\alpha} f \right]^{\frac{A}{2}} \left[\frac{1}{f} \frac{df}{dx} - \alpha \left(\frac{6}{6} \right) \frac{df}{dx} \right] \\
&= \frac{3}{4} \frac{1}{f} \left[\frac{4}{6} \frac{df}{dx} + \frac{1}{4} \left(\frac{df}{dx} \right) \right] \theta, \quad \left(\frac{6}{6} \right)^{\alpha} f \right]^{\frac{A}{2}} \\
&= \frac{3}{4} \frac{1}{f} \left[\frac{4}{3} \frac{df}{dx} + \frac{1}{6} \frac{df}{dx} \right] \theta, \quad \left(\frac{6}{6} \right)^{\alpha} f \right]^{\frac{A}{2}} \\
&= \frac{3}{4} \frac{1}{f} \left[\frac{4}{3} \frac{df}{dx} + \frac{1}{6} \frac{df}{dx} \right] \theta, \quad \left(\frac{6}{6} \right)^{\alpha} f \right]^{\frac{A}{2}} \\
&= \left[\frac{6}{6} \frac{\alpha}{6} f \right]^{\frac{A}{2}} \theta, \quad \left(\frac{3}{3} \frac{\pi}{6} \frac{df}{dx} \right)^{\frac{A}{2}} \frac{1}{f} \frac{df}{dx} + \alpha \left(\frac{6}{6} \frac{\pi}{6} \right)^{\frac{A}{2}} \frac{1}{f} \frac{df}{dx} \right]^{\frac{A}{2}} \\
&= \left[\frac{6}{6} \frac{\alpha}{6} f \right]^{\frac{A}{2}} \theta, \quad \left(\frac{3}{3} \frac{\pi}{6} \frac{df}{dx} \right)^{\frac{A}{2}} \frac{1}{f} \frac{df}{dx} + \alpha \left(\frac{6}{6} \frac{1}{6} \right)^{\frac{A}{2}} \frac{1}{f} \frac{df}{dx} \right]^{\frac{A}{2}} \\
&= \left[\frac{6}{6} \frac{\alpha}{6} f \right]^{\frac{A}{2}} \theta, \quad \left(\frac{3}{3} \frac{\pi}{6} \frac{df}{dx} \right)^{\frac{A}{2}} \frac{1}{f} \frac{df}{dx} + \alpha \left(\frac{6}{6} \frac{1}{6} \right)^{\frac{A}{2}} \frac{1}{f} \frac{df}{dx} \right]^{\frac{A}{2}} \\
&= \left[\frac{6}{6} \frac{\alpha}{6} f \right]^{\frac{A}{2}} \theta, \quad \left(\frac{3}{3} \frac{\pi}{6} \frac{df}{dx} \right)^{\frac{A}{2}} \frac{1}{f} \frac{df}{dx} + \alpha \left(\frac{6}{6} \frac{1}{6} \right)^{\frac{A}{2}} \frac{1}{f} \frac{df}{dx} \right]^{\frac{A}{2}} \\
&= \left[\frac{6}{6} \frac{\alpha}{6} f \right]^{\frac{A}{2}} \theta, \quad \left(\frac{3}{3} \frac{\pi}{6} \frac{df}{dx} \right)^{\frac{A}{2}} \frac{1}{f} \frac{df}{dx} + \alpha \left(\frac{6}{6} \frac{1}{6} \right)^{\frac{A}{2}} \frac{1}{f} \frac{df}{dx} \right]^{\frac{A}{2}} \\
&= \left[\frac{6}{6} \frac{\alpha}{6} f \right]^{\frac{A}{2}} \theta, \quad \left(\frac{3}{3} \frac{\pi}{6} \frac{df}{dx} \right)^{\frac{A}{2}} \frac{1}{f} \frac{df}{dx} + \alpha \left(\frac{6}{6} \frac{1}{6} \right)^{\frac{A}{2}} \frac{1}{f} \frac{df}{dx} \right]^{\frac{A}{2}} \frac{1}{f} \frac{df}{dx}$$

$$&= \frac{1}{2} \frac{1}{f} \frac{1$$

$$-\frac{2}{x} = \frac{d\Phi}{dx} + \frac{4}{3} \frac{dx}{dx} = \frac{d(\frac{dx}{dx})^2 \Phi}{dx}$$

Variable:
$$\frac{2\theta}{A} + \frac{2\theta}{3\lambda} + \frac{2n}{x} = \frac{4}{3} \frac{x^{2}}{b} n^{2} \frac{2n-2}{x^{2n-1}}$$

$$\frac{2}{A} \frac{1}{2} \frac{1}{b} + \frac{2}{3} \frac{x^{2}}{b} n^{2} \frac{x^{2n-1}}{2n-1}$$

$$\frac{2}{A} \frac{1}{2} \frac{1}{b} + \frac{2}{3} \frac{x^{2}}{b} n^{2} \frac{x^{2n-1}}{2n-1}$$

$$\frac{2}{A} \frac{1}{3} \frac{1}{b} n^{2} \frac{x^{2n-1}}{2n-1}$$

$$\frac{2}{A} \frac{1}{a} \frac{1}{a} \frac{x^{2n-1}}{2n-1}$$

$$\frac{2}{A} \frac{1}{a} \frac{1}{a} \frac{x^{2n-1}}{2n-1}$$

$$\frac{2}{A} \frac{1}{a} \frac{1}{a} \frac{1}{a} \frac{x^{2n-1}}{2n-1}$$

$$\frac{2}{A} \frac{1}{a} \frac{1}{$$

$$6 = e^{x}$$

$$\frac{dy}{dx} = e^{2x}$$

$$\frac{dy}{dx} = e^{2x}$$

$$\int \cdots = \frac{1}{\sqrt{2}}$$

$$\frac{2y \times \frac{dG}{dx} = \frac{1}{x}}{6 \frac{dG}{dx} = \frac{1}{x}} \left(\frac{dG}{dx}\right)^2 = x^2$$

$$\frac{dG}{dx}^2 = \frac{1}{x}$$

$$\frac{dG}{dx} = \frac{1}{x^2}$$

$$6 = x^{\frac{1}{2}}$$

$$\frac{d^{\frac{1}{2}}}{dx} = x^{\frac{1}{2}}$$

$$A = 6 = x^{\frac{1}{2}}$$

$$= 0 \qquad \uparrow \qquad \underset{\sim}{-} \underset{\sim}{\alpha A} \qquad \stackrel{\sim}{3} \underset{\sim}{\eta} \dots$$

$$0 = \frac{ga^{2} + m - (\alpha + \frac{c}{A})}{2} + \frac{d}{dx} + \frac{d}{dx}$$

$$0 = \frac{ga^{2} + m - uv(\alpha + \frac{c}{A})}{2} + \frac{d}{dx} + \frac{d}{dx} + \frac{d}{dx}$$

$$u \left[v(\alpha + \frac{c}{A}) + \frac{d}{dx} + \frac{d}{dx} + \frac{d}{dx} \right]$$

$$0 = \frac{ga^{2} + m - (\alpha + \frac{c}{A})}{x} + \frac{d}{dx} + \frac{d}{dx}$$

$$0 = \frac{ga^{2} + m - (\alpha + \frac{c}{A})}{x} + \frac{d}{dx} + \frac{d}{dx}$$

$$1 = \frac{ga^{2} + m - (\alpha + \frac{c}{A})}{x} + \frac{d}{dx} + \frac{d}{dx}$$

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$$1 = \frac{ga^{2} + m - (\alpha + \frac{c}{A})}{x} + \frac{d}{dx} + \frac{d}{dx}$$

$$\frac{dH}{dx} - (\alpha + \frac{c}{A}) + \frac{m}{\theta} + \frac{g\alpha^2}{\theta x} = 0$$

$$\frac{dH}{dx} - \frac{dA}{dx} - \frac{dA}{dx} - \frac{dA}{dx} + \frac{dA}{dx} = 0$$

$$\frac{dA}{dx} - \frac{dA}{dx} - \frac{dA}{dx} - \frac{dA}{dx} + \frac{dA}{dx} = 0$$

$$\frac{dA}{dx} - \frac{dA}{dx} - \frac{dA}{dx} + \frac{dA}{dx} + \frac{dA}{dx} = 0$$

nelly fun) du = 2 log fl. fl 82 - 6+ 2) Top f + at & Top f + unt lyf (= + - x+ =) the du - (x+ €) * u + + ge2 + m = 0 $\left(d + \frac{e}{A}\right)^{2} u = \left[\frac{u}{2h} \frac{du}{dx} + \frac{ga^{2}}{u} + u\right]^{2}$ $\left(x+\frac{c}{\lambda}\right)^{2}h^{2}$ $\left(x+\frac{c}{\lambda}\right)^{2}h^{2}$ $\left(x+\frac{c}{\lambda}\right)^{2}h^{2}$ du = p [2 dr - gar] 之人本 + 8= = Te " (It ht for gar = (x+ =) ui-m- m du [(a+=) | -m-(2+ du) = gar (a+=) | du 1 - m du]

$$\frac{\partial}{\partial x} = \frac{\partial}{\partial x} + m - (\alpha + \frac{1}{A}) \hat{v}^{2} - (\alpha + \frac{1}{A}) n + \frac{1}{A} (\partial + u) \frac{dy}{dx}$$

$$m - (\alpha + \frac{1}{A}) \hat{v} = 0$$

$$m = \frac{m}{\alpha + \frac{1}{A}}$$

$$\frac{\partial}{\partial x} = \frac{\partial}{\partial x} - (\alpha + \frac{1}{A}) \hat{v} + \frac{1}{A} n \frac{\partial}{\partial x} + \frac{1}{A} \hat{v}^{2} \frac{\partial}{\partial x}$$

$$\frac{\partial}{\partial x} = \frac{1}{A} \frac{\partial}{\partial x} + \frac{1}{A} \frac{\partial}{\partial x} + \frac{1}{A} \frac{\partial}{\partial x} + \frac{1}{A} \frac{\partial}{\partial x}$$

$$\frac{\partial}{\partial x} = \frac{1}{A} \frac{\partial}{\partial x} + \frac{1}{A} \frac{\partial}{\partial x} + \frac{1}{A} \frac{\partial}{\partial x}$$

$$\frac{\partial}{\partial x} = \frac{1}{A} \frac{\partial}{\partial x} + \frac{1}{A} \frac{\partial}{\partial x} + \frac{1}{A} \frac{\partial}{\partial x}$$

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$$\frac{\partial}{\partial x} = \frac{1}{A} \frac{\partial}{\partial x} + \frac{1}{A} \frac{\partial}{\partial x}$$

$$\frac{\partial}{\partial x} = \frac{1}{A}$$

$$A + \frac{1}{A} - \frac{1}{3} + \frac{1}{3} = \frac{1}{3}$$

$$A + \frac{1}{A} - \frac{1}{3} + \frac{1}{3} = \frac{1}{3}$$

$$A + \frac{1}{A} - \frac{1}{3} + \frac{1}{3} = \frac{1}{3}$$

$$A + \frac{1}{A} - \frac{1}{3} + \frac{1}{3} = \frac{1}{3}$$

$$A + \frac{1}{A} - \frac{1}{3} + \frac{1}{3} = \frac{1}{3}$$

$$A + \frac{1}{A} - \frac{1}{3} + \frac{1}{3} = \frac{1}{3}$$

$$A + \frac{1}{A} - \frac{1}{3} + \frac{1}{3} = \frac{1}{3}$$

$$A + \frac{1}{3} - \frac{1}{3} = \frac{1}{3} + \frac{1}{3} = \frac{1}{3} = \frac{1}{3}$$

$$A + \frac{1}{3} - \frac{1}{3} = \frac{1}{3} + \frac{1}{3} = \frac{1}{3}$$

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$$\frac{2c^{2}}{A^{2}} = \frac{d}{dx} \left[\frac{\alpha + \tilde{A}}{3} \theta - \frac{z \theta}{3} - \frac{\theta^{2} d\tilde{a}}{3\theta} \right] \left[z (2-\alpha) \right]$$

$$\frac{2c}{A} = \frac{d\alpha}{d\theta} = \frac{d}{d\theta} \left[\frac{z}{a\theta} - \frac{z}{a\theta} - \frac{\theta^{2} d\tilde{a}}{3\theta} \right] = 2(2-\alpha) \left[\alpha + \frac{c}{A} \right] \left[\frac{\alpha + \frac{c}{A}}{a\theta} - \frac{\theta^{2} d\tilde{a}}{3\theta} - \frac{\theta^{2} d\tilde{a}}{3\theta} \right]$$

$$\frac{2c}{A} = \frac{z}{A} \left[\frac{\alpha + \tilde{A}}{a\theta} - \frac{z}{a\theta} - \frac{\theta^{2} d\tilde{a}}{3\theta} \right] = 2(2-\alpha) \left[\frac{\alpha + \frac{c}{A}}{a\theta} \right] \left[\frac{\alpha + \frac{c}{A}}{a\theta} - \frac{\theta^{2} d\tilde{a}}{3\theta} \right]$$

$$+ \left[22 \left[\frac{\alpha + \frac{c}{A}}{a\theta} \right] \left[\frac{\alpha + \frac{c}{A}}{a\theta} \right] \theta - z \theta - \frac{\theta^{2} d\tilde{a}}{3\theta} \right]$$

$$\frac{dx}{dz} = \int_{-\infty}^{\infty} \left[(\alpha + \frac{c}{A} + - 2) \frac{d\theta}{dz} - \theta \right]$$

$$\frac{2c}{A} = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{dx}{dz} = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{dx}{dz} + \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{dx}{dz} - \frac{dx}{dz} + \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{dx}{dz} + \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{dx}{dz} - \int_{-\infty}^{\infty} \frac{dx}{dz} + \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{dx}{dz} - \int_{-\infty}^{\infty} \frac{dx}{dz} + \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{dx}{dz} - \int_{-\infty}^{\infty} \frac{dx}{dz} + \int_{-\infty}^{\infty} \frac{dx}{dz} - \int_{-\infty}^{\infty} \frac{dx}$$

$$\frac{2s_2}{A} = \frac{d}{dx} \left[\frac{2}{2} \frac{1}{1} \frac{d\theta}{dx} \right]$$

$$\frac{2}{A} = 4 = 4 \frac{dx}{dx} - 2^{\frac{1}{2}} \frac{dx}{dx} - 2^{\frac{1}{2}} \frac{dx}{dx} = \frac{d}{dx} \left(\frac{dx}{dx} \right)^{\frac{1}{2}}.$$

$$\frac{2}{A} = \frac{1}{\theta} \frac{d\theta}{dx} = 2 \frac{dz}{dx} - 2 \frac{d}{dx} \left(\frac{1}{y} + \frac{1}{\theta} \frac{d\theta}{dx} \right)$$

$$\frac{2s}{A} = \frac{1}{\theta} \frac{d\theta}{dz} = 2 - 2 \frac{d}{dz} \left(\frac{2s}{dz} + \frac{1}{dz} \right)$$

$$\frac{d(2s)}{dz}$$

$$\left[\frac{e^2}{A^2} + \frac{c\alpha}{A} + \frac{a}{u} - \frac{1}{u^2}\right]$$

Profileron:
$$\frac{\partial^{2}}{\partial x^{2}} = \frac{\partial^{2}}{\partial x$$

$$\frac{dn}{dz} = p \qquad \frac{d^{2}n}{dz^{2}} = p \frac{dn}{dn}$$

$$h_{0} + p ll_{1} + p^{2} ll_{2} + p \frac{dn}{dn} ll_{3} = 0$$

$$d = \frac{1}{A} = \frac{1}{A} = \alpha \left(1 + \frac{1}{\alpha A}\right) = \alpha \left(1 + \frac{1}{A}\right) = \frac{\alpha A}{A-1}$$

$$d = \frac{1}{A} = \frac{1}{A-1}$$

$$d = \frac{1}{A} = \frac{1}{A-1} = \frac{1}{A-1}$$

$$d = \frac{1}{A} = \frac{1}{A-1} = \frac{1}{A-1$$

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$$\frac{dA}{du} \left(\frac{d\tau_{A}^{2} - u}{A} \right) \left(\frac{c}{A} - u \right) + q \left[\frac{d\tau_{A}^{2} - u}{A} \right] \frac{du}{du}$$

$$q \left[\frac{c}{A} - u \right] - u \left(\frac{c}{A} - u \right) - u \left(\frac{c}{A} - \frac{c}{A} - u \right) \right]$$

$$= \frac{2c}{A} \left(\frac{d\tau_{A}^{2} - u}{A} \right) - u \left(\frac{d\tau_{A}^{2} - 2u}{A} - u \right)$$

$$U_{1} = \left(\frac{d\tau_{A}^{2} - u}{A} \right) - u \left(\frac{d\tau_{A}^{2} - u}{A} - u \right)$$

$$= 1 + \frac{u}{u - \frac{c}{A}} + \frac{u}{u - \alpha - \frac{c}{A}} = 3 - \frac{\frac{c}{A} - u}{\frac{c}{A} - u} - \frac{d\tau_{A}^{2}}{\frac{c}{A} - u} \right]$$

$$= 1 + \frac{u}{u - \frac{c}{A}} + \frac{u}{u - \alpha - \frac{c}{A}} = 3 - \frac{\frac{c}{A} - u}{\frac{c}{A} - u} - \frac{d\tau_{A}^{2}}{\frac{c}{A} - u} - \frac{d\tau_{A}^{$$

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$$\int -\frac{\dot{A}}{A} du = \frac{\dot{A}}{\dot{A}} \left(\frac{\dot{A}}{A} - u \right) = \frac{1}{2} \left(\frac{\dot{A}}{A} - u \right)^{\frac{\dot{A}}{A}}$$

$$= \int \frac{\dot{A}}{u - \frac{\dot{A}}{A}} du = \frac{\dot{A}}{\dot{A}} \frac{1}{2} \left(\frac{\dot{A}}{a} - u \right)^{\frac{\dot{A}}{A}} \frac{1}{2} \frac{1}{2$$

$$= 2 \left(3u \right) \left(\frac{3u}{A} - u \right) \left(\frac{5}{A} - u \right) du - \left(\frac{4t}{A} \right) \left(\frac{5}{A} - u \right) \left(\frac{5}{A} - u \right) du$$

$$= 2 \left(\frac{3u}{2} \left(\frac{4t}{A} - u \right) \left(\frac{5}{A} - u \right) du - \left(\frac{4t}{A} - u \right) \left(\frac{5}{A} - u \right) du \right) \left(\frac{5}{A} - u \right) du$$

$$= 2 \left(\frac{3u}{2} \left(\frac{4t}{A} - u \right) \left(\frac{5}{A} - u \right) du - \left(\frac{5}{A} - u \right) du \right)$$

$$= 2 \left(\frac{3u}{2} \left(\frac{4t}{A} - u \right) \left(\frac{5}{A} - u \right) du - \left(\frac{5}{A}$$

$$2\frac{dq}{du} + q - q - 1u\frac{du}{du}$$

$$2\frac{dq}{A} + q - q - 1u\frac{du}{du}$$

$$\frac{2}{A}(\alpha + \frac{1}{A} - u)$$

$$\frac{1}{2}\frac{dq}{du} - \frac{q}{2}\frac{du}{du} + \frac{1}{2}\frac{1}{A}\frac{1}{A} - u - \frac{du}{du} = \frac{u_1}{2}$$

$$\frac{1}{2}\frac{dq}{du} - \frac{q}{2}\frac{du}{du} + \frac{1}{2}\frac{1}{A}\frac{1}{A}\frac{1}{A} - u - \frac{du}{du} = \frac{u_1}{2}$$

$$\frac{1}{2}\frac{dq}{du} - \frac{q}{2}\frac{du}{du} + \frac{1}{2}\frac{1}{A}\frac$$

$$g = f(u) = \frac{1}{1 - \frac{1}{4}u^2}$$

$$\frac{du}{dx} = u \left[1 - \frac{1}{4u}\right]$$

$$\frac{du}{dx} = u \left[1 - \frac{1}{4u}\right]$$

$$\int \frac{du}{u \left[1 - \frac{1}{4u}\right]} = \int dx = \int \frac{dy}{y}$$

$$\int u = x - \frac{1}{4u}$$

$$0 = y - (x + \frac{1}{4})\theta + \frac{4}{3}d\theta +$$

uc A

$$\frac{\zeta}{A} = \frac{1}{0} \frac{\partial \theta}{\partial x} + \frac{1}{0} \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} \left[\frac{\partial \theta}{\partial x} \right]^{2} \frac{\partial \theta}{\partial x} \left[\frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} \right]^{2}$$

$$g(x) + \frac{\partial \theta}{\partial x} \left[\frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} \right] + \frac{\partial \theta}{\partial x} \left[\frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} \right]^{2}$$

$$g(x) + \frac{\partial \theta}{\partial x} - \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} \left[\frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} \right] + \frac{\partial \theta}{\partial x}$$

$$g(x) + \frac{\partial \theta}{\partial x} - \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{4}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{2}{3} \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{\partial \theta}{\partial x} = \frac{\partial \theta}{\partial x} = \frac{\partial \theta}{\partial x} + \frac{\partial \theta}{\partial x} = \frac{\partial \theta}{$$

$$\frac{d6}{dx} = v$$

$$\frac{1}{A} \frac{d\theta}{dx} = \frac{4}{3} \frac{dy}{dx} v^2 - \frac{2v}{6}$$

$$\frac{4\pi}{3} \frac{\pi}{6} \frac{\partial w}{\partial x} = g - \omega \frac{\partial w}{\partial x} + \left[\omega - \frac{4\pi}{3} \frac{\pi}{6} \frac{\partial w}{\partial x} \right] \left[\frac{\pi}{4} \frac{\partial w}{\partial x} - \frac{\omega}{4} \frac{\partial w}{\partial x} \right]$$

$$= g - \left(\frac{1}{4} + \frac{1}{4} \right) \frac{\partial}{\partial x} + \frac{1}{4} \frac{\partial}{\partial x} \frac{\partial}$$

II).
$$\frac{dv}{dx} = \frac{q}{\frac{1}{3}\pi} \frac{1}{66} - \frac{\alpha(1+\frac{2}{3})}{\frac{1}{3}\pi} \frac{v}{6^2} + \frac{2\alpha}{4} \frac{v^2}{6} - \frac{(\frac{1}{3}\pi)}{\frac{1}{3}} v^3$$

$$g \times + \left(x - \frac{4}{3} \frac{d}{dx} \right) \frac{d\theta}{dx} = \alpha \frac{1}{6} \frac{d6}{dx} + \frac{4}{3} \frac{\pi}{4} \frac{\theta}{6} \frac{d^2 6}{dx}$$

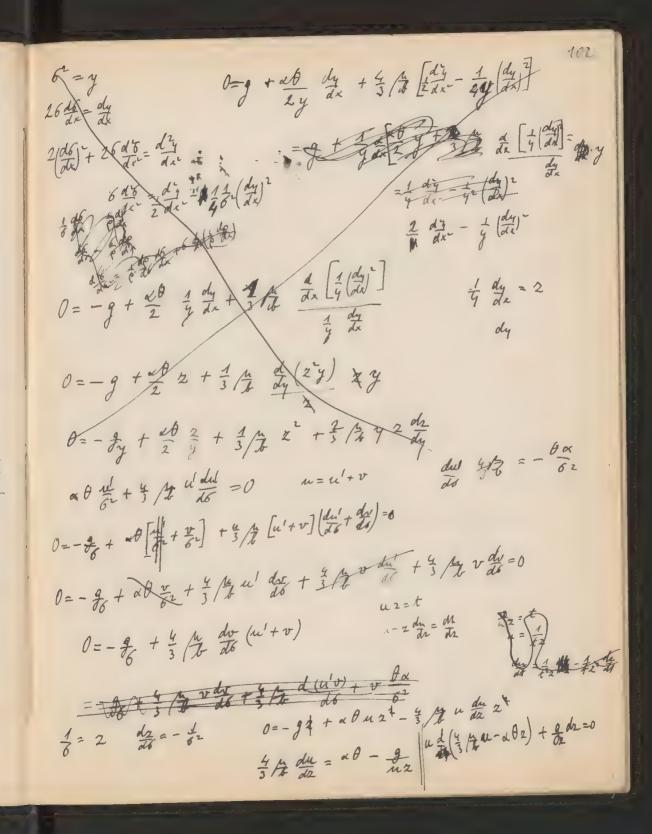
$$= -\frac{c}{A} \frac{1}{\theta} \frac{d\theta}{dx} \cdot \frac{6}{dx}$$

$$\frac{1}{A} \frac{\partial^{2} \partial x^{2}}{\partial x^{2}} + \frac{\partial^{2} \partial x^{2}}{\partial x$$

$$\frac{\left[\frac{8}{3} d_{1} d_{1} - \frac{1}{6}\right] d_{1}}{d_{1}} + \frac{a}{6} d_{1}}{d_{1}}^{2} = \frac{1}{4} d_{1} \left(\frac{1}{6} d_{1}\right) \left[\frac{3}{3} d_{1} d_{1}\right] + \frac{a}{6} d_{1}}{d_{1}}^{2} + \frac{a}{6} d_{1}\right]^{2} = \frac{1}{4} d_{1} \left(\frac{1}{6} d_{1}\right) \left[\frac{3}{3} d_{1} d_{1}\right] + \frac{a}{6} d_{1}\right]^{2} + \frac{a}{6} d_{1} d_{1} + \frac{a}{6} d_{1} d_{1} + \frac{8}{3} d_{1} d_{1} d_{1} + \frac{8}{3} d_{1} d_{1} d_{1} - \frac{a}{6} d_{1} d_{1} d_{1} + \frac{a}{3} d_{1} d_{1} d_{1} + \frac{a}{3} d_{1} d_{1} d_{1} + \frac{a}{3} d_{1} d$$

[dg+d(a+=) dt+ + + + + + + + + + + -] - a[dd-][ag+a(a+=) dt+ + -] = 4 to = [x do -] 2 62 do [] 2 [ald] [ag + (x ti) db] = x [add] 14 / $\left[\frac{6^{2}}{6}\frac{d}{dx}\left(\theta\frac{d\theta}{dx}\right)\frac{4}{3}\frac{4}{6}\frac{6}{A}\right]+\left[\frac{6^{2}}{6}\frac{d}{dx}\left(\theta\frac{d\theta}{dx}\right)\frac{4}{3}\frac{4}{6}\frac{6}{A}\right]2\alpha\left[g+(\alpha+\frac{2}{A})\frac{d\theta}{dx}\right]-\lambda\frac{2}{dx}+\alpha g\left[m\right]$ - 5to A 6 dt [alt-g]2 = a [att-g][g+(a+2) tt]-- 2 [g+(x+;) NO]2 $= \chi^{2} \left[g + (\alpha + \frac{\zeta}{A}) \frac{d\theta}{dx} \right] \left[\alpha \frac{d\theta}{dx} - g - g - \ell + \frac{\zeta}{A} \right) \frac{d\theta}{dx} \right]$ "Itariegge to 62 or romanie) stuymololy sig romanie 3 shydudle v (ini Kanivajace jus to) lydrie strige do ornovenia talyst To romanie 62 =

di = - d (6) de) Trovingmy praybled: Inhtad isothermiczny: Plak + 6/20 20 g= f 10 = - gran - 1 1/2 + 43 1/2 1/2 .p6=b=p.60= p.060 6= b y breton + 13 M 16 Jato. 0=-g- x 8 = 0 x + 3 = 6 dx 0=-g+ x 8 1 d6 + 4 6 d6 de u de de u du 26 d6 = u du = 2/d6) + 26 d8 26 die = du - 1/4/2 Q=-9+ 20 11 + 4 12 th du $\frac{1}{6} \frac{d6}{dx} = \frac{u}{262} = \frac{1}{d62} u - \frac{1}{262} u$ do (9- a 8 m) = 3 /4 m6 2= g + x d u + 3 /2 du - (1) $0 = -g + \alpha \theta + \frac{4}{3} \ln \left[\frac{1}{2} \frac{dn_{11}}{dt} + \frac{n^{2}}{6} \right]$ Author res ages unt 6 du = dx 1 3 / doy - 1/2 62 + 2 - 7 =0 -4 16 + of = dy - 62 2u db = dx - 6 dy 0=-8+ 20 m'v + 4 /2 m'v [n' du + v dn'] uv do



$$u = \frac{f_6}{\frac{\alpha \theta}{6^2} + \frac{4}{3} / \frac{1}{3} /$$

$$h=0 \quad x=\alpha \quad y=(\alpha + \frac{c}{4})\theta - 2 \quad u=(1+\frac{c}{4})-5$$

$$> 0 \quad = \frac{k}{k-1}-5 < \frac{\pi}{2}$$

 $\frac{2c}{A\alpha}\left[1+\frac{c}{A\alpha}+\frac{m-gx}{\alpha\theta}\right]=\frac{1}{dx}\left[1+\frac{c}{A\alpha}+\frac{m-gx}{\alpha\theta}\right]\left[\frac{c}{A\alpha}+\frac{m-gx}{\alpha\theta}\right]$ $\left(\frac{1}{a}+\frac{m-gx}{\alpha\theta}\right]$ y> (2+=) 0-2 # aA = 1-1 $g \times m = y = e^2$ $d\theta = u e^2$ $\frac{2a}{Aa}\left[1+\frac{a}{Aa}-\frac{1}{n}\right]\left(n+\frac{dn}{dx}\right)^{2}=-\left[--\frac{1}{n}\right]$ $9 = \left[2 - \frac{1}{1 + \frac{1}{4}n} + \frac{\frac{1}{4}n}{\frac{1}{4}n}\right] \cdot \left(\frac{1}{4}n - u\right) \cdot \left(\frac{1}{4}n$ $\int \frac{du}{u \left[1 - \frac{1}{f_{av}}\right]} = \int dz = \int \frac{du}{y}$ $q_{non} = \int 2e^{3u} du = \frac{3u}{3} = \frac{4 + u}{3} = \frac{3u}{3} = \frac{4 + u}{3} = \frac{3u}{3} = \frac{2e^{4u}}{3}$ $= \frac{3n}{2} \left[\frac{7}{3}n - \frac{4}{9}n + \frac{4}{17} \right] = \frac{3}{3} \left[\frac{1}{3}n + \frac{2}{9} \right]$ Ju [1- 3 e] dla villerch vortosci u [Ju [1- 1 2] Horghedwoje- optyr energie kinetyranej de nie tarie:

1).
$$p = \alpha \theta \rho$$

2). $6 \frac{d6}{dx} = -g + -\frac{1}{\rho} \frac{\partial x}{\partial x} = -g - \lambda \frac{\partial \theta}{\partial x} + \frac{\alpha \theta}{\theta} \frac{\partial \theta}{\partial x}$
 $p = \alpha \theta \lambda$

3).
$$\frac{1}{4\theta} \frac{\partial \theta}{\partial x} + \frac{1}{4\theta} \frac{\partial \theta}{\partial x} = 0$$

$$(\frac{\theta}{\theta_0})^{\frac{1}{2}} \left(\frac{1}{6\theta_0}\right)^{\frac{1}{2}} \left(\frac{1}{6\theta_0}\right)^{\frac{1}{2}} \frac{\partial \theta}{\partial x} = \frac{1}{6\theta_0} \left(\frac{1}{6\theta_0}\right)^{\frac{1}{2}} \frac{\partial \theta}{\partial x} = \frac{1}$$

\$10-gan

$$2 - \theta 3): \qquad 6 \frac{d6}{dx} = -g - (\alpha + \frac{\alpha}{A}) \frac{d\theta}{dx}$$

$$\frac{6^{2} + gx + (\alpha + \frac{\alpha}{A}) \theta}{2} = condt$$

$$\frac{6^{2} - 6^{2}}{2} + g(x - \alpha) + \frac{\lambda}{k} \frac{k}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + g(x - \alpha) + \frac{\alpha}{k} \frac{k}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + g(x - \alpha) + \frac{\alpha}{k} \frac{k}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + g(x - \alpha) + \frac{\alpha}{k} \frac{k}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + g(x - \alpha) + \frac{\alpha}{k} \frac{k}{(\theta - \theta_{0})} = 0$$

$$20. \quad k - 1 = \frac{1}{2}$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

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$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$\frac{6^{2} - 6^{2}}{2} + \frac{1}{(\theta - \theta_{0})} = 0$$

$$g(x-a) = (16 - 16) \left[\frac{2k}{k-1} \frac{2k}{6} \frac{6}{6^{k-1}} \frac{1}{166} - (6+6)(16+16) \right]$$

$$\frac{\alpha \theta_0 \theta}{6_0} = p_0$$

$$lg(x-a) = \frac{2k}{k-1} \frac{1}{4} \frac{6}{6} \frac{6^{\frac{3}{2}}}{16} \left[\frac{1}{16} - \frac{1}{16} \right] - (6^{\frac{3}{2}} - 6^{\frac{3}{2}}) \right]$$

$$= \frac{1}{4} \frac{6}{4} \frac{6}{4} \frac{6}{6} \frac{6}{6} \frac{1}{16} \left[\frac{1}{16} - \frac{1}{16} \right] - (6^{\frac{3}{2}} - 6^{\frac{3}{2}}) \right]$$

$$= \frac{1}{4} \frac{6}{4} \frac{6}{4} \frac{1}{16} \frac{1}{$$

Romanie kompletie:

$$\begin{cases} \frac{\delta^2}{2} = g = \frac{\alpha}{A} - g \times + m - (\alpha + \frac{\zeta}{A}) \theta + \frac{\zeta}{3} + \frac{\zeta}{3} \theta & \frac{\delta}{dx} \end{cases}$$

$$= \begin{cases} \frac{\delta^2}{2} = g \times + m - (\alpha + \frac{\zeta}{A}) \theta + \frac{\zeta}{3} + \frac{\zeta}{3} \theta & \frac{\delta}{dx} \end{cases}$$

$$= \begin{cases} \frac{\delta^2}{2} = g \times + m - (\alpha + \frac{\zeta}{A}) \theta + \frac{\zeta}{3} + \frac{\zeta}{3} \theta & \frac{\delta}{dx} \end{cases}$$

$$= \begin{cases} \frac{\delta^2}{2} = g \times + m - (\alpha + \frac{\zeta}{A}) \theta + \frac{\zeta}{3} + \frac{\zeta}{3} \theta & \frac{\delta}{dx} \end{cases}$$

$$= \begin{cases} \frac{\delta^2}{2} = g \times + m - (\alpha + \frac{\zeta}{A}) \theta + \frac{\zeta}{3} + \frac{\zeta}{3} \theta & \frac{\delta}{dx} \end{cases}$$

$$m = \frac{60^{2}}{2} = m - (\alpha + \frac{1}{A})\theta + \frac{1}{3}d\theta +$$

gx-m=y

$$\begin{cases} \frac{c}{2} = -y - (\alpha + \frac{c}{A})\theta + \frac{c}{2}t_{\alpha}\theta \cdot \frac{dc}{dy} \\ \frac{c}{A} t_{\alpha} \frac{dv}{dy} + \frac{c}{2} \frac{dc}{dy} = \frac{c}{2}t_{\alpha}(\frac{dc}{dy})^{2} \end{cases}$$

tanically 6:

$$\frac{2c}{Ax} \left[1 + \frac{c}{Ax} + \frac{c}{Ax} \right] = \frac{d}{Ay} \left[\frac{(1 + \frac{c}{Ax} + \frac{c}{Ax})(\frac{c}{Ax} + \frac{c}{Ax})}{\frac{1}{\theta}} \frac{d\theta}{Ay} \right]$$

$$\frac{c}{Ax} = \frac{1}{A-1}$$

$$\frac{c}{Ax$$

$$2(k+u)(1+u) = -(k+u)(1+u) \frac{du}{d2} + \mu(f_{1}) \frac{du}{dx} + \mu(f_{1}) \frac{du}{dx} + \mu(f_{1}) + \mu(f_{1}) + \mu(f_{2}) + \mu(f_{1}) + \mu(f_{2}) + \mu(f_{2$$

Tan plais do - 0: $\frac{6^{2}}{2} = -y - (\alpha + \frac{\zeta}{A})\theta + \alpha\theta = -y - \frac{\zeta}{A}\theta$ Foriethyse millying #th -gx+m- = B g x = (α+ =) θ - = θ $0 = -g \times + (\alpha + \frac{\alpha}{A})(\theta_{\circ} - \theta) + \frac{4}{3} f_{\bullet} \theta + \frac{6}{3} f_{\bullet}$ I). = + do + = de - + + (de)-Najprior It <0, 2 tem 2 II: d6 >0 Dale 2 I): I veigz vigkne anizeli gdyby 120 hyd which not my stable o pray gx=(x+x) to nimatar tutej jednok prny gx = (x+ =) Po manny I). $\alpha + \frac{1}{A} = \frac{4}{3} f_{\overline{a}}^{\overline{a}} 6 \frac{d6}{da} 2 \text{ orgo from Lett.}$ (四十六) 是我=生存成了=要我十六日 viec & the = i do he minister

$$y \frac{dy}{dx} + y X_{1} + X_{2} = 0$$

$$\frac{1}{2} \frac{dx}{dx} + X_{2} \sqrt{2} + X_{2} = 0$$

$$y^{2} + \int y X_{1} dx + \int X_{2} dx = 0$$

$$y + \int X_{1} dx + \int X_{2} \frac{dx}{y} = 0$$

$$\frac{2^{2}}{2} + \int \frac{1}{2} \frac{dx}{x} + \frac{1}{2} \frac{dx}{y} = 0$$

$$\frac{2^{2}}{2} + \int \frac{1}{2} \frac{dx}{x} + \frac{1}{2} \frac{dx}{y} = 0$$

$$\frac{2^{2}}{2} + \int \frac{1}{2} \frac{dx}{x} + \frac{1}{2} \frac{dx}{y} = 0$$

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$$\frac{2^{2}}{2} + \int \frac{1}{2} \frac{dx}{x} + \frac{1}{2} \frac{dx}{x} + \frac{1}{2} \frac{dx}{y} = 0$$

$$\frac{2^{2}}{2} + \int \frac{1}{2} \frac{dx}{x} + \frac{1}{2} \frac{$$

$$y = u + \text{MHz} v$$

$$(u + \text{av}) \left(\frac{du}{dx} + \frac{dv}{dx} \right) + \left(u + \text{vv} \right) X_1 + X_2 = 0$$

$$u \frac{du}{dx} + u \frac{dv}{dx} + v \frac{du}{dx} + v \frac{dv}{dx} + u X_1 + v X_2 + v X_3 + v X_4 = 0$$

$$y = u + a$$

$$(y+a) \frac{du}{dx} + (y+a)X_i + X_z = 0$$

$$y \frac{du}{dx} + y X_i + X_z + a \left(\frac{du}{dx} + X_i\right) = 0$$

$$\frac{3}{1} \frac{dy_{1}}{dx} + y_{1} X_{1} = 0$$

$$\frac{1}{2} \frac{d(y_{1}^{2} - y_{1}^{2})}{dx} + \frac{(y_{1} - y_{1})}{dx} + \frac{1}{2} \frac{1}{2} \frac{(y_{1} - y_{1})}{dx} + \frac{1}{2} \frac$$

 $u \frac{dn}{dx} + y_1^2 \frac{dn}{dx} + X_2 = 0$

$$\frac{dy}{dx} + X_{1}^{\pm} + \frac{1}{y}X_{2}^{\pm} = 0$$

$$\frac{dy}{dx} + X_{1}' + \frac{X_{2}'}{y} - \frac{X_{1}}{y^{2}}\frac{dy}{dx} = 0$$

$$\frac{dy}{dx} + X_{1}' + \frac{X_{2}'}{y} + \frac{X_{1}'X_{2}}{y^{2}} + \frac{X_{2}^{2}}{y^{3}} = 0$$

$$y = \frac{-X_{2}}{\frac{dy}{dx} + X_{1}}$$

$$\frac{dy}{dx} = \frac{-X_{2}'}{\frac{dy}{dx} + X_{1}} + \frac{X_{2}}{\frac{dy}{dx} + X_{1}'} + \frac{dy}{\frac{dx}{dx} + X_{1}'} = -\frac{X_{2}'}{\frac{dy}{dx} + X_{1}} + \frac{X_{2}}{\frac{dy}{dx} + X_{1}'} = -\frac{X_{2}'}{\frac{dx}{dx} + X_{1}'} + \frac{X_{2}}{\frac{dx}{dx} + X_{1}'} = 0$$

$$\frac{dy}{dx} + \frac{1}{y} + \frac{1$$

2/2

y = naid sing

X 2= x cof

Sphrical symmetry: me by me by

$$\left(\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial v}{\partial z}\right) = \frac{\partial b}{\partial x} \left[\sin \theta \sin \varphi + \sin \theta \sin \varphi + \sin \theta \right] + \frac{b}{2} \left[\sin \theta \sin \varphi + \sin \theta \sin \varphi + \sin \theta \right] + \frac{b}{2} \left[+ \sin \theta \sin \varphi + \sin \theta \sin \varphi + \sin \theta \right] + \frac{b}{2} \left[+ \sin \theta \sin \varphi + \sin \theta \sin \varphi + \sin \theta \sin \varphi \right]$$

$$= \frac{36}{3\pi} + \frac{26}{\pi}$$

$$\nabla u = \frac{\partial G}{\partial n^2} = \theta m \varphi + \frac{2}{n} \frac{\partial G}{\partial n} = \frac{\partial G}{\partial n^2} = \frac{\partial G}{\partial$$

$$\frac{\partial u}{\partial x} = \frac{\partial 6}{\partial x} \sin \theta \cos \varphi + \frac{6}{\lambda} (\sin \theta \sin \varphi + \sin \varphi)$$

$$= \frac{\partial 6}{\partial x} - \frac{6}{\lambda} \sin \theta \sin \varphi + \frac{6}{\lambda} (\sin \theta \sin \varphi + \frac{6}{\lambda} \cos \theta \sin \varphi)$$

$$= \frac{\partial 6}{\partial x} - \frac{6}{\lambda} \sin \theta \sin \varphi + \frac{6}{\lambda} (\sin \theta \sin \varphi \cos \varphi)$$

$$= \frac{\partial 6}{\partial x} - \frac{6}{\lambda} \sin \theta \sin \varphi \cos \varphi$$

$$= \frac{\partial 6}{\partial x} - \frac{6}{\lambda} \sin \theta \sin \varphi + \frac{6}{\lambda} \cos \theta \sin \varphi - \frac{6}{\lambda} \sin \varphi \cos \varphi$$

$$= \frac{\partial 6}{\partial x} - \frac{6}{\lambda} \sin \theta \sin \varphi + \frac{6}{\lambda} (\sin \theta \sin \varphi + \sin \varphi)$$

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$$= \frac{\partial 6}{\partial x} -$$

$$\left(\frac{\partial V}{\partial y} + \frac{\partial V}{\partial z}\right)^2 = 4\left(\frac{\partial 6}{\partial x} - \frac{6}{\lambda}\right)^2 \sin \theta \sin \theta \sin \phi$$

$$\left(\frac{\partial u}{\partial z} + \frac{\partial v}{\partial z}\right)^2 = 4\left(\frac{\partial 6}{\partial z} - \frac{6}{\lambda}\right)^2 \sin^2 \theta \sin^2 \theta$$

$$\left(\frac{\partial v}{\partial x} + \frac{\partial u}{\partial y}\right) = 4\left(\frac{\partial c}{\partial x} - \frac{c}{\lambda}\right)^2 \sin^4\theta \sin^4\varphi \sin^4\varphi$$

$$= \frac{\sin^4\theta \left[4 - \sin^4\theta \sin^4\theta\right]}{2\left[3 - \frac{1}{2}\right]^2 \left[3 - \frac{1}{2}\right]^2$$

$$\Phi = 2 \left(\frac{52}{52} - \frac{6}{5} \right)^2 + 4 \frac{6}{5} \left(\frac{26}{52} - \frac{6}{5} \right) + 6 \left(\frac{6}{5} \right)^2 - \frac{3}{3} \left(\frac{36}{52} + \frac{26}{52} \right)^2 = \frac{4}{3} \left[\frac{36}{52} - \frac{6}{52} \right]$$

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$$6\frac{26}{22} = -9\frac{\alpha}{n^{2}} - \frac{1}{6}\frac{24}{22} + \frac{7}{36}\frac{\partial}{\partial n}\left[\frac{26}{2n} + \frac{26}{n}\right]$$

$$4e^{6}\frac{\partial \theta}{\partial n} + \left(\frac{26}{2n} + \frac{26}{n}\right) = \frac{4n}{3}\left[\frac{26}{2n} - \frac{6}{2n}\right]^{2} = \frac{1}{2}$$

$$1 = 4e^{\frac{1}{3}}$$

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$$p = \frac{b}{6n^2} = p \cdot 66 \cdot \alpha^2 = b$$

$$p = \frac{b}{6n^2} \left| p = \frac{d}{6n^2} \right|$$

$$\frac{\partial \theta}{\partial h} = -\frac{\partial \alpha}{\partial n} - \alpha \delta n^2 \frac{\partial}{\partial n} \left(\frac{\partial}{\partial n} \right) + \frac{4 \mu \theta}{3 4} \delta n^2 \frac{\partial}{\partial n} \left(\frac{\partial}{\partial n} + \frac{2 \delta}{n} \right)$$

$$= \frac{\partial}{\partial n} + \alpha \frac{\partial}{\partial n} \left(\frac{\partial}{\partial n} + \frac{2 \delta}{n} \right) = \frac{4 \mu \theta}{3 4 n} \left[\frac{\partial}{\partial n} - \frac{\delta}{n} \right]^2$$

$$\frac{\partial p_{xx} + \cdots}{\partial p_{x}} = -\frac{2}{3} \frac{\partial}{\partial x} \left(n \cdot div \right) + \frac{\partial}{\partial y} \left[n \left(\frac{\partial v}{\partial x} + \frac{\partial u}{\partial y} \right) \right] + \frac{\partial}{\partial z} \left[n \left(\frac{\partial v}{\partial y} + \frac{\partial v}{\partial z} \right) \right] + 2 \frac{\partial}{\partial x} \left(n \cdot \frac{\partial u}{\partial x} \right)$$

$$= -\frac{2}{3} \frac{\partial^{2}_{xx}}{\partial x} \left(\frac{\partial x}{\partial x} + \frac{\partial y}{\partial y} + \frac{\partial x}{\partial x} \right) - \frac{2}{3} \ln \left(\frac{\partial x}{\partial x} + \frac{\partial y}{\partial x} + \frac{\partial^{2}_{xx}}{\partial x} + \frac{\partial^{2}_{xx}}{$$

$$= -\frac{2}{3} \frac{d}{dx} \left[\mu(\frac{dx}{dx} + \frac{dx}{dx} + \frac{dx}{dx}) + \frac{d}{dx} (\mu \frac{dx}{dx} + \frac{dx}{dx}) + \frac{dx}{dx} (\mu \frac{dx}{dx} + \frac{dx}{dx}$$

Vot + de (div) = de (db) - -20 wy [di + 2 di - 26 + di (di + 26) dr + 2 df - 26 マルニ は サーラッカッナ かん = de de f) sin3 t wig + de (f) z t wap + it with way = 250 mg (de - 5) + de (5) m (at &) sin might All (at - x) right our dans = not an of do = 益以一言人(統十等)十十年(統分)十二年人能 to [1 (th. 2)] sin b usp + 1 (th- 2) 2 2 tusbusp + 2 sin b usp sip 2 sidnitriq my + 1 sid cop - sit singly sind signing stilling - sindurg(wit-, sin28) = sil [2000 any + and any the and anyt into ung] = 2 tay Hom

$$6 \frac{dh}{dh} = -\frac{ga^{2}}{h^{2}} - \alpha 6 \frac{dh}{dh} \frac{d\theta}{dh} + \frac{2f}{2} \frac{d\theta}{dh} = \frac{2f}{h^{2}} \frac{d\theta}{dh} + \frac{2f}{2} \frac{d\theta}{dh} + \frac{2f}{2} \frac{d\theta}{dh} + \frac{2f}{2} \frac{d\theta}{dh} + \frac{2f}{2} \frac{d\theta}{dh} + \frac{2f}{h^{2}} \frac{d\theta}{dh} \frac{d\theta}{dh} + \frac{2f}{h^{2}} \frac{d\theta}{$$

$$\frac{\delta^2}{2} = \frac{ga^2}{n} + m - (\alpha + \frac{\epsilon}{A})\theta + \frac{4}{3}\frac{h}{4}\theta + \delta h^2 \left(\frac{d\delta}{dx} - \frac{\delta}{h}\right)$$

$$\frac{\epsilon}{A}\frac{d\theta}{dx} + \frac{\lambda}{6}\left[\frac{d\delta}{dx} + \frac{2\delta}{h}\right] = \frac{4}{3}\frac{h}{4}\theta + h^2 \left(\frac{d\delta}{dx} - \frac{\delta}{h}\right)^2$$

$$\frac{1}{2}\frac{z^{2}}{z^{4}} = \frac{ga^{2}}{z} + m - (\alpha + \frac{\zeta}{A})\theta + \frac{4\kappa}{3b}\theta z^{2}\frac{d}{dx}\left(\frac{2}{\lambda^{3}}\right)$$

$$\frac{2}{A}\frac{d\theta}{dr} + \frac{\partial}{\partial r}\frac{dr}{dr} = \frac{4r}{3\theta} \frac{\partial}{\partial r} \frac{\partial}{\partial r} \left[\frac{\partial}{\partial r} \left(\frac{\partial}{\partial r} \right) \right]^{2}$$

$$\frac{6}{2} = u$$

$$\frac{u^2r^2}{2} = \frac{ga^2}{2} + m - (dt + \frac{c}{A})\theta + \frac{a_1}{3} + \theta + \frac{du}{dt}$$
Id

$$\frac{c}{A} \frac{dt}{dr} + \frac{at\theta}{u n^3} \frac{d}{dr} \left(u n^3 \right) = \frac{4t}{3t} \theta n^4 \left(\frac{du}{dr} \right)^2 \qquad \text{Id}$$

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$$(x + \frac{\pi}{A})$$
 $= 0$

$$\frac{1}{3} \frac{1}{h} \frac{1}$$

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$$\hat{A}$$
 by θ + $\alpha(\log 6 + \log \hat{x})$ = emt = θ_0 \hat{A} $(6\hat{x}^2)^{\alpha}$ = cmt = θ_0 \hat{A} $(6\hat{x}^2)^{\alpha}$

$$\frac{g e^{2}}{n} + m = (\alpha + \frac{c}{A}) \theta$$

$$g = \left(\frac{2}{\lambda} - 1\right) = \left(k + \frac{c}{\lambda}\right) \left(\theta - \theta_0\right)$$

$$\frac{2\alpha\theta}{2} + \frac{\alpha\theta}{6} \frac{d6}{dr} + \frac{2}{4} = 0$$

$$\frac{\alpha \theta_0}{6} \frac{d6}{dr} = \frac{g}{1 + \alpha A} - \frac{2\alpha \theta_0}{a}$$

$$\left(\frac{d\delta}{dr} - \frac{\Delta}{r}\right) = \frac{6}{\alpha \theta_0} \left[\frac{g}{1 + \alpha A} - \frac{2\alpha \theta_0}{\alpha} - \frac{\alpha \theta_0}{\alpha}\right] \\
 = 6 \left[\frac{g}{\alpha \theta_0} - \frac{3}{\alpha}\right]$$

 $\left(\frac{d\theta}{dr}\right) = -\frac{g}{(\kappa + \frac{c}{4})}$

$$\frac{d\delta}{dx}, \frac{\delta}{2}, \frac{\delta}{2}$$

Esperue emmisja rig ping to roinis Juils de stanie ing = & to: ga (2-1) - (2+2)(++0)=0 ga2 + m - (x+ €) 0 =0 $\frac{\leq 1 \text{ alt}}{A \text{ oth}} + \frac{3 \text{ a.m.}}{2} = 0$ ga (1- 2) = (+=) (+=) Varg vrsy orlad & muristoly by wies' migse anieli gody les tamis Jedrof samin (de - 6) otani sig = 0 to mno istrici procht golsie: of (df + 26) = 4/2 M2 (df - €) Jam Lydsie dt = 0! Cay ten punkt by his orig gung ty? $\frac{ds}{dr} > \frac{6}{2}$ $\frac{ds}{dr} + \frac{2\alpha}{n} = \frac{4}{3} \frac{4}{r} \left(\frac{ds}{dr} - \frac{s}{n} \right)^2$ $\frac{d}{2} \frac{d(6)}{dx} + \frac{2 \times 6^2}{x} = \frac{4 \times 2}{36} \frac{x^2}{6!} \left[\frac{d(6)}{2} - \frac{6}{x} \right]^2$ 6=A $\frac{2}{2} \int_{-\infty}^{\infty} \frac{ds}{ds} + \frac{2\alpha s^2}{2} = \frac{1}{2} \int_{-\infty}^{\infty} \left[\frac{4}{4} \int_{-\infty}^{\infty} \left(\frac{ds}{ds} \right)^2 - rs \frac{ds}{ds} + \frac{3}{2} \right]$ 0 是 数 [空間]- 3 如 [空中] + 3 至 2 四 · 0 章 数与作的一次。[数+至]+3[数-] $0 \ge \left(\frac{2}{2} \frac{dy}{dx}\right)^2 - 2\left(\frac{n}{2} \frac{dy}{dx}\right) + \left(1 + \frac{36}{94} \frac{2}{2}x\right) + 3^2\left(1 - \frac{36}{94} \frac{2}{2}x\right)$

[2 do - s(1+ 3/ 2)] = 3/ (3/ x + (3/ x)) + 3/ 2x 32 36 x (3 + 36 x / 4n) $2 \frac{1}{\pi} \left[s + \frac{1}{8} \frac{ds}{dt} \right]^2 - \frac{1}{64} \left(\frac{ds}{dt} \right)^2 = \frac{4}{36} \left[\frac{1}{\pi} \frac{ds}{dt} - s \right]^2$ rich de verzi ny enmigna strony notwodnie most by borly orsigns to V preisonger ugredku (2) to verzi bydni < 0 ds > # 至 extendity byt mai growth ghis 1 =0 -(0,-0)(2+4) = + 80(1-2) - 4 862 (2) 1/13c moj Thy by' punkt yhir 8=0 juils 1). 6 i the shine one a to =0 co nie misline bo 1). mynejetsky voltof Ia tokie: 6d6 = -gai! wtośnie zolożenie by & ie \$676

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$$\frac{2id\theta}{A \theta dh} + \frac{3d}{h} + \frac{3d}{\theta} \left[\frac{d\delta}{dh} - \frac{\delta}{h} \right] = \frac{4}{9d} \left[\frac{d\delta}{dh} - \frac{\delta}{h} \right]^{2}$$

$$\frac{d}{dh} = \frac{d}{dh} \left[\frac{d\delta}{dh} + \frac{3d}{h} \right] = \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + m - (a + \frac{c}{h}) \theta \right] + \frac{1}{\theta} \left[\frac{\partial a^{2}}{\partial h} + m - (a + \frac{c}{h}) \theta \right]^{2}$$

$$\frac{d}{dh} = \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + m - (a + \frac{c}{h}) \theta \right] + \frac{1}{\theta} \left[\frac{\partial a^{2}}{\partial h} + m - (a + \frac{c}{h}) \theta \right]^{2}$$

$$\frac{d}{dh} = \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + m - (a + \frac{c}{h}) \theta \right] + \frac{1}{\theta} \left[\frac{\partial a^{2}}{\partial h} + m - (a + \frac{c}{h}) \theta \right]^{2}$$

$$\frac{d}{dh} = \frac{d}{dh} \left[\frac{d}{dh} + \frac{d}{dh} + \frac{3d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{d}{h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{\partial a^{2}}{\partial h} + \frac{\partial a^{2}}{\partial h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{\partial a^{2}}{\partial h} + \frac{\partial a^{2}}{\partial h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{\partial a^{2}}{\partial h} + \frac{\partial a^{2}}{\partial h} \right] + \frac{d}{dh} \left[\frac{\partial a^{2}}{\partial h} + \frac{\partial a^{2}}{\partial h} + \frac{\partial a^{2}$$

$$\frac{1}{A} = \frac{3a^{2}}{n} + m - (k + \frac{1}{A})\theta + \frac{4}{3}\frac{4}{6}\theta + \frac{4}{6}u \frac{du}{dx} \qquad \frac{du}{dx} \qquad \frac{du}{dx}$$

$$\frac{1}{A} \frac{d\theta}{dx} + \frac{3u\theta}{x} + \frac{u\theta}{u} \frac{du}{dx} = \frac{4u}{36}\theta + \frac{4}{3}\frac{u}{(dx)^{2}}u$$

$$\frac{1}{A} \frac{d\theta}{dx} + \frac{3u\theta}{x} + \frac{u\theta}{u} \frac{du}{dx} = \frac{4u}{36}\theta + \frac{4}{3}\frac{u}{(dx)^{2}}u$$

$$\frac{a}{A} \frac{d\theta}{dx} + \frac{3\alpha}{\lambda} = \frac{a}{An} \left[\frac{d\theta}{dx} + \frac{3\alpha}{\lambda} \frac{d\theta}{dx} \right] = \frac{a}{A} \frac{d}{dx} \left(\frac{\partial x}{\partial x} \right) \frac{3\alpha}{\lambda}$$

$$\frac{1}{A}u\frac{d\theta}{dx} + \frac{3u\theta u}{2} = + \frac{1}{A}\frac{d\theta}{dx} - \frac{1}{2}\frac{du}{dx} - \frac{8e^2}{2}\frac{du}{dx}$$

$$\frac{1}{A}\frac{du}{dx}\left(\frac{\theta}{u}\right) + \frac{3u}{2}\frac{\theta}{u} + \frac{1}{2}\frac{du}{dx}\left(\frac{u}{u}\right) - \frac{8e^2}{2}\frac{du}{dx}$$

$$\frac{1}{A}\frac{du}{dx}\left(\frac{\theta}{u}\right) + \frac{3u}{2}\frac{\theta}{u} + \frac{1}{2}\frac{du}{dx}\left(\frac{u}{u}\right) - \frac{8e^2}{2}\frac{du}{dx}$$

$$0 = v + \frac{4}{3k} \frac{\partial x^2}{\partial x} \frac{\partial x^2}{\partial x}$$

$$u = \left[\frac{1}{A} \frac{\partial x}{\partial x} + \frac{3u\phi}{2}\right] + \frac{u^2}{2} \frac{\partial x}{\partial x} \frac{\partial x^2}{\partial x} + \frac{u^2}{2k} \frac{v^2}{\partial x} + \frac{u^2}{2k} \frac{v^2}$$

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$$\frac{1}{A}\frac{\partial A}{\partial t} + \frac{1}{2}\frac{\partial A}{\partial t} + \frac{1}{2}\frac{\partial A}{\partial t} = 0$$

$$\frac{\partial A}{\partial t}\frac{\partial A}{\partial t} + \frac{1}{2}\frac{\partial A}{\partial t} = 0$$

$$\frac{\partial A}{\partial t}\frac{\partial A}{\partial t} + \frac{1}{2}\frac{\partial A}{\partial t} + \frac{1}{2}\frac{\partial$$

g = -ak do | | 0 = 0 - gx k-1 Crythorning thourshow: I 0= ga (x+ =) 0 ga(2/1) = d & 0 $\frac{1}{k_0} = \frac{\theta}{\theta_0} \frac{\rho}{\rho_0} = \frac{\theta}{\theta_0} \frac{1}{\rho_0} = \frac{1}{\rho_0} \frac{1}{\rho_0} \frac{1}{\rho_0}$ $\frac{\partial}{\partial \rho} = \left(\frac{6}{6\rho}\right)^{\frac{1}{2}-k} = \left(\frac{\rho}{\rho}\right)^{\frac{1}{2}-k} = \left(\frac{\rho}{\rho}\right)^{\frac{1}{2}-k}$ $gx + m = -(x + \frac{\pi}{2})\theta$ $\theta = \theta_0 \left(\frac{\theta}{\theta_0}\right)^{\frac{\pi}{1-k}}$ df = 60 O T-K db m = - (x1+2) 0 $S^{\times} = (\alpha t + \frac{1}{2})(\theta_0 - \theta)$ $g \times = \alpha \frac{k}{k-1} \left(\theta_0 - \theta\right) = \frac{1}{k-1} \theta_0 \left(1 - \frac{\theta}{\theta_0}\right) = \frac{1}{k-1} \left(\theta_0 - \frac{1}{2} + \frac{1}{2} +$ $\left(\frac{k}{p_0}\right) = \frac{360 \cdot 1}{\left(\frac{1}{5}\right)^{\frac{74}{0.4}}} = \left(\frac{1}{5}\right)^{\frac{7}{2}}$ $= \frac{360 \cdot 1}{9 \cdot 1} \left(\frac{\theta_0 - 3 \times \frac{k-1}{0.4}}{\frac{1}{0.4}}\right)^{\frac{7}{1-\kappa}}$ 16 = 260 (1 - 8x(k-1)) 1-16 $\frac{\theta}{\theta_0} = \frac{1}{5}$ y(to) = - = 2 y 5 0 = 56° ch. 0.69897 489279 -- 2170 -2446\$0 = 0.55360-3 \$ = 0.003578.76. p = ue 2.5 mm Nun ober not Assmann, Hupselleto.

Ann ohn and Assmann, Hupsell to.

in ce 14000 m: -650 = 208°

without noch olyn Frind mi sollte 140° $\frac{7}{2} : x = \frac{7}{4} : 8$ $\frac{56}{208} = \frac{7}{26}$ $\frac{5}{20} = \frac{7}{20} = \frac{7}$

Krytzerny probet ling me nysokości 27 km mze tan go mnog mie 1%. emigrone a 6 o tyler zaz krone oga supetnie vytorer ojge seg po rovnamo puptione. I) 6 db = - g - (a+ \frac{1}{A}) dt + \frac{4}{3} tb [6 \frac{1}{4} (\theta \frac{1}{4} \tau) + \theta (\das)] $\boxed{1} \cdot \frac{\delta^2}{2} = -gx + m - (\alpha + \frac{c}{A})\theta + \frac{c}{3}\frac{d}{dx}\theta + \frac{d}{dx} = \left[6\frac{d}{dx} + \left(\frac{d}{dx}\right)^2\right]\theta + 6\frac{d}{dx}\frac{d\theta}{dx}$ II. A do + + a d6 = 4th (d6)2 $6\frac{ds}{dx} + \frac{1}{g} - \frac{4}{3}\frac{1}{2}\left[6\frac{ds}{dx} + \left(\frac{ds}{dx}\right)^{2}\right]\theta = \left[-\left(\alpha + \frac{1}{A}\right) + \frac{4}{3}\frac{1}{2}\frac{1}{2} \cdot 6\frac{ds}{dx}\right]\frac{d\theta}{dx}$ = 在 [数 数 () - 要 起] = -(a+=) + = te 6 ds 5 + gx - m $\left[-(a+\frac{1}{a})+\frac{1}{3}\frac{1}{16}\frac{6}{6}\frac{d6}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}x-m\right]\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{6}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}\frac{d^{\frac{1}{2}}}{dx}\right]^{\frac{1}{2}}\left[\frac{6}{6}\frac{d^{\frac{1}{2}}}{dx}+\frac{1}{9}$ = $\left[\frac{4\pi}{3} + 8x - m\right] \left[\frac{4\pi}{3} + \left(\frac{66}{4x}\right)^2 - \frac{4\pi}{3} \frac{46}{4x}\right] \left[-\left(4 + \frac{4\pi}{4}\right) + \frac{5\pi}{3} + \frac{6\pi}{4x}\right] = \frac{6\pi}{3}$ (か十二十年十十年三0) = d lyt + & do = 4 to (ods) A (dx) + & dx dx = 3 /2 dyo App = 3 /2 dyo

A dat a toda = 3th to de AAANgosi a di g do de t A dx + A dx dx + a dx dx + a d dx = 3 th dx (dx) + 8 (d6) 3 + 286 dx dx $\frac{1}{\theta} \frac{\partial^2}{\partial x} \frac{\partial \theta}{\partial x} = \frac{(m - gx)}{A} \frac{\partial \theta}{\partial x} - (x + \frac{c}{A}) \frac{\partial \theta}{\partial x} + \frac{c}{3} \frac{\partial \theta}{\partial x} \frac{\partial \theta}{\partial x} \frac{\partial \theta}{\partial x}$ $6\frac{d6}{dx} - \frac{6^2}{2}\frac{1}{\theta}\frac{d\theta}{dx} = \frac{(m-gx)}{\theta}\frac{d\theta}{dx} + \frac{ad\theta}{a}\frac{dx}{dx} - g + \frac{a}{\theta}\frac{d6}{dx} + \frac{4}{3}\frac{d}{dx} + \frac{6}{3}\frac{d}{dx}$ dy + X, y + X2 =0 Y # + X, 42 + X2 4 + X3 =0

 $\frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} + \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} + \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} + \frac{1}{\sqrt{1}} \frac$

A

$$e \frac{dc}{dx} + f_1(x) \frac{dc}{dx} + f_2(x) = 0$$

$$(c + f_1(x)) = y$$

$$kc + f_1(x) = dy$$

$$\pi x + f_1(x) = dy$$

$$e^{\frac{d^2}{dx} + \int_{f(x)} \frac{d^2}{dx} + \int_{f(x)} \frac{d^2}{dx} + \int_{f(x)} \frac{d^2}{dx} = 0}$$

$$= \frac{60 \text{ g/m}}{\omega k \theta_0} \left[1 - \frac{g_{\infty}(k-1)}{\omega k \theta_0} \right]^{\frac{1}{2}}$$

$$= \frac{60 \text{ g/m}}{\omega k \theta_0} \left[1 - \frac{g_{\infty}(k-1)}{\omega k \theta_0} \right]^{\frac{1}{2}}$$

$$\varepsilon = -\frac{f_1 - f_1}{f_1} = -f_1 - \frac{f_2}{f_1}$$

$$\frac{d\lambda}{du} = -\frac{df_1}{dx} - \frac{df_2}{dx} + \frac{f_2}{(\frac{dc}{dx})} - \frac{dx}{dx^2}$$

(race tures protoci) - =

$$y + u = v$$
 $(y+u)(\frac{dy}{dx}+u') + (y+u)^2X_1 + X = 0$
 $v = \frac{dy}{dx} + v^2X_1 + X = 0$

Jiell: jeho zierom puyltimi:
$$\int_{0}^{\infty} \theta = 0.00018 \text{ (pzm)}$$
 $g \times = 4 \frac{1}{k} \cdot (\theta - \theta)$
 $\int_{0}^{\infty} \theta = -\frac{1}{2} \frac{1}{k} \frac{1}{k}$
 $\int_{0}^{\infty} \theta = 0.0018 \text{ (pzm)}$
 $\int_{0}^{\infty} \theta = 0.0013$
 $\int_{0}^{\infty} \theta = 0.00016$
 $\int_{0}^{\infty} \frac{1}{2} \frac{1}{2}$

$$\frac{6^{2}}{2} = 3 \times m - (x + \frac{1}{A})\theta + \frac{1}{3} \frac{1}{b} \theta + \frac{1}{3} \frac{1}{b} \theta + \frac{1}{3} \frac{1}{b} \frac$$

$$\frac{26df}{dx} + 2g + 2a \frac{k}{k-1} dx + \frac{3}{3} dx \frac{d}{dx} (\theta + 26df) \\
a_1 + 2g + \frac{2a k}{k-1} \theta_0 \theta_1 + \frac{4}{3} dx (a_1 \theta_1 + 2a_2 \theta_0) \theta_0 = 0$$

$$\frac{ka_2 + 2a k}{k-1} \theta_0 \theta_2 + \frac{4}{3} dx (a_1 \theta_2 + 2a_2 \theta_1 + 3a_3 \theta_0) \theta_0 = 0$$

$$\frac{ka_3 + 2a k}{k-1} \theta_0 \theta_3 + \frac{4}{3} \frac{4}{3} dx (a_1 \theta_3 + 2a_2 \theta_2 + 3a_3 \theta_1 + 4a_4 \theta_0) \theta_0 = 0$$

$$\frac{ka_3 + 2a k}{k-1} \theta_0 \theta_3 + \frac{4}{3} \frac{4}{3} dx (a_1 \theta_3 + 2a_2 \theta_2 + 3a_3 \theta_1 + 4a_4 \theta_0) \theta_0 = 0$$

$$\frac{ka_3 + 2a k}{k-1} \theta_0 \theta_3 + \frac{4}{3} \frac{4}{3} dx (a_1 \theta_3 + 2a_2 \theta_3 + 3a_3 \theta_1 + 4a_4 \theta_0) \theta_0 = 0$$

$$\frac{ka_3 + 2a k}{k-1} \theta_0 \theta_3 + \frac{4}{3} \frac{4}{3} dx (a_1 \theta_3 + 2a_2 \theta_3 + 3a_3 \theta_1 + 4a_4 \theta_0) \theta_0 = 0$$

$$\frac{\alpha}{k-1} a_0 b_1 + \frac{\alpha}{2} a_1 b_0 = \frac{4}{3} \frac{1}{4} \frac{b_0 a_1^2}{4}$$

$$\frac{\alpha}{k-1} (2a_0 b_1 + a_1 b_1) + \frac{\alpha}{2} (2a_2 b_0 + a_1 b_1) = \frac{4}{3} \frac{1}{4} \frac{1}{4} \left(b_0 \left(4a_1 a_2\right) + b_1 a_1^2\right)$$

$$\frac{\alpha}{k-1} \left(3a_0 b_3 + 2a_1 b_2 + a_2 b_1\right) + \frac{\alpha}{2} \left(3a_3 b_0 + 2a_2 b_1 + a_1 b_2\right) = \frac{4}{3} \frac{1}{4} \frac{1}{4} \left(b_0 \left(ba_1 a_3 + 4a_2\right) + b_1 a_1^2\right)$$

$$+ b_1 4a_1 a_2 + b_2 a_1^2$$

$$\frac{\alpha}{k-1} \left(4a_0b_4 + 3a_1b_3 + 2a_2b_2 + a_3b_1 \right) + \frac{\alpha}{2} \left(4a_4b_0 + 3a_3b_1 + 2a_2b_2 + a_1b_3 \right) =$$

$$= \frac{4}{3} \frac{1}{3} \frac{1}{4} \left[b_0 \left(8a_1a_4 + 12a_2a_3 \right) + b_1 \left(6a_1a_3 + 4a_2^2 \right) + b_2 4a_1a_2 + b_3 a_1^2 \right]$$

Imy sport vorcing to be song:

$$dz = \frac{s}{u} du$$

$$\beta = \frac{e^2}{\alpha u} = \frac{k-1}{\alpha} \frac{\gamma}{u}$$

 $-(k+u)(1+u)u \frac{1}{3^3} du = -\frac{1}{3^2} \left[4u^2 - u(1+k) - 2k \right] + \frac{1}{3} \left[u^2 + 4u + 3k \right] + u^2 + ku - u dk$

(k+u)(1+u) u ds + [4u-u(1+k)-2k] s - [u+4u+3k] s + [u-t ku-u-k] 30

1= 20+ 21 u+ 2 u2 + 23 u3 + 24 u4 + ---

$$-2ka_0 - 3ka_0^2 + ka_0^3 = 0$$

At Retter -g = 1 1 2 2 x 2 P = et e Vol. ~ 1/2 1/20/20 12 ! & Vol. (eg + co) = 3 2 2 2 porto " " " × 4 9/5 (1-x) 4 10 ey spe. Vol. w ? Pd = 1 co you Vol. v=1 + pr=1 1 hy 10/20 \$ 1 = Vol. 2 wx + 1-x · P= 1 + 1-x + Pd = x 二 Aut T + - xoho = chy To Aux de = x, no + c ly To = A de out = A de = -A g de -Ag2 = To T + ally To - a Tly T + con T +AgH = no+cTo I du vaangestet dan c unter von Truy. SM

. ..

h= a dp

Cry mie nystaway godanie w'wente w druch mrijscoch?

treboly poder 6, 62 P1

$$\frac{\partial^{2} u}{\partial x} + \rho_{1} g + \alpha \rho_{1} \rho_{2} (u_{1} - u_{2}) = 0$$

$$\frac{\partial^{2} u}{\partial x} + \rho_{1} g + \alpha \rho_{1} \rho_{2} (u_{2} - u_{1}) = 0$$

$$\frac{\partial^{2} u}{\partial x} + \rho_{2} g + \alpha \rho_{1} \rho_{2} (u_{2} - u_{1}) = 0$$

$$\frac{\partial^{2} u}{\partial x} + \rho_{1} \frac{\partial^{2} u}{\partial x} + \rho_{2} + \alpha \rho_{1} (u_{2} - u_{1}) = 0$$

$$\frac{\partial^{2} u}{\partial x} + \rho_{1} \frac{\partial^{2} u}{\partial x} + \rho_{2} + \alpha \rho_{1} (u_{2} - u_{1}) = 0$$

$$\frac{d}{dx}(\rho_1 u_1) = 0$$

$$\frac{d}{dx}(\rho_1 u_2) = 0$$

$$\rho_1 u_1 = c_1$$

$$\rho_2 u_2 = c_2$$

$$p_{i} = \alpha_{i} P_{i} \theta$$

$$p_{i$$

$$\frac{\rho_{10}}{\rho_{20}} = \frac{c_{0}}{c_{2}}$$

$$\frac{\rho_{10}}{\rho_{20}} = \frac{c_{0}}{c_{2}}$$

$$\frac{\rho_{10}}{\rho_{2}} = \frac{c_{1}}{c_{2}}$$

$$\frac{\rho_{10}}{\rho_{2}} = \frac{c_{1}}{c_{2}}$$

$$\frac{\rho_{10}}{\rho_{20}} = \frac{c_{1}}{c_{2}}$$

$$\frac{\rho_{10}}{\rho_{10}} = \frac{c_{1}}{c_{2}}$$

$$\frac{\rho_{10}}{\rho_{10}} = \frac{c_{1}}{c_{2}}$$

$$\frac{\rho_{10}}{\rho_{10}} = \frac{c_{1}}{c_{2}}$$

$$\frac{\rho_{10}}{\rho_{10}} = \frac{c_{1}}{c_{2}}$$

= Pic, [Pi - Pio]

C2 = (20 W

$$\frac{d_{1}b_{1}b_{1}b_{2}}{dx} + \frac{(g + a c_{1})}{dx} + a - \frac{\pi}{\pi} = 0$$

$$\frac{d_{2}b_{1}b_{2}}{dx} = \frac{(g + a c_{1})}{a c_{1}} p_{2} - a c_{2}p_{3}$$

$$= \frac{(g + a c_{1})}{a c_{1}} \left[p_{3}(g + a c_{2}) - a_{3}b_{3}(g + a c_{2}) - a_{4}b_{3}(g + a c_{2}) - a_{5}b_{3}(g + a c_{2}$$

Jestermiurny tookted donk far on mydry erung ; they your.

n= 4, =0

$$\frac{\partial h}{\partial x} = \rho_1 X_1 \qquad \frac{\partial h}{\partial x} = \rho_2 X_2$$

82-10, F. 32-102 F.

$$\int \frac{1}{\rho_i} d\mu_i = \mathcal{U} = \int \frac{1}{\rho_L} d\mu_L$$

$$\mathcal{U} = \frac{k M}{R} + \frac{k m}{r}$$

$$U = \alpha_1 \theta \log \rho_1 + cont = \alpha_2 \theta \log \rho_2 + cont = k \frac{M}{R} + k \frac{M}{R}$$

$$\alpha_{i}\theta \log \frac{m}{h_{i0}} = \left[\frac{kM}{R} + km - \frac{kM}{A} - 1\right] \alpha_{2}\theta \log \frac{m}{h_{20}} = \left[\frac{kM}{R} + \frac{kM}{R} - \frac{kM}{A} - 1\right]$$

ay by hi = de by he (his) = (his) az My = (he) and $\frac{p_1}{p_2} = \frac{p_{10}}{p_{10}} \frac{\alpha_1}{\alpha_1} p_2^{(\frac{\alpha_2}{\alpha_1} - 1)} \qquad \text{Wighthere is a farmkown of getting}$ danch for our byte meximum, $\frac{\alpha_2}{\alpha_1}-1$ must als bybyt =0, wige $\alpha_1=\alpha_2$ Theore or for thony me wykne & n. p az > 21 by his most stromhoro with cos'nothis parayalis tam getic p just withen n. p. wodoù morphe se blistoin

7. *** \frac{1}{\tau}. - - . 1. - 2 12 - 2 - 3 - 3 - 3

 $\frac{1}{\sqrt{1-2}} = \frac{1}{\sqrt{2}} = \frac$ in in the state of nodiffication of the The John - Ma for the $\frac{\sqrt[3]{p}}{\sqrt[3]{p}} = \frac{1}{\sqrt{2}} + \sqrt[3]{p} = \frac{1}{\sqrt{2}} - \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$ ----- $\frac{\partial y}{\partial y} \partial y = \frac{\partial y}{\partial y} \partial y - \frac{\partial y}{\partial y} \partial y - \frac{\partial y}{\partial y} \partial y = \frac{\partial y}{\partial y} \partial y - \frac{\partial y}{\partial y} \partial y - \frac{\partial y}{\partial y} \partial y = \frac{\partial y}{\partial y} \partial y - \frac{\partial y}{\partial$ 70 d = 8 $f_{\text{and}} = \emptyset \quad \emptyset = \emptyset$ $f_{\text{and}} = \emptyset \quad \emptyset = \emptyset$ Latimium more para distopie na orbi prontaya; no'uran

$$\frac{9}{\sqrt{90}} = \frac{1}{\sqrt{5}} = \frac{1}{\sqrt{6}} = \frac$$

ı

= 12 =

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 $\frac{i}{i}$

= 5 = 5

J=12

Tene + hexe + the re + he re + me no + me no me + me no me n + 26 Chitad + 4 par [The n+ The n to the part [13 + (he) + (he)] #) sper (\frac{\sigma_e}{\sigma_e} \sigma_+ + \frac{\sigma_e}{\sigma_e} \frac{\sigma_e}{\sigma_e d 20 40 (20 π + 20 t) + 20 40 [(20 π + 20 π + 20 π) + 1 20 π = 1] [m/+ [= + 4] - (= + 4) - (2'g+hynx'x) hxV +0 (2'g+h'x)n+ 本、大人(大学, りょう) 本人(大学, り, と) 本、大人 Fruck method: speth of the enter: wht, vat, vat For white of

mp/p [1 The + 1 The + 1 The + 17 The 7] + from [" Te + " Te T] -+ + 1 me 7] w 0=(on on +xnon)(he + xe) n/+

1=4/1/2/+(for on 1+ xnon) (re + re) n/+ (xnon 1 + hnon m) (re + he) n/+

1=4/1/2/+(for on 1+ xnon) (re + re) n/+ なかしいまれいからいナメルのできかかとナ + 22 (sum 4 + 4 mm) de - 2 de (sum 4 + 4 mm) de - = 9 had so find of the - +xron xe) N = het il the が れきり + 2 (元 を + な he + で か) - = 2 ハマリ 5 ३४ रि + v(zno 2pt + pn n py + xnnxpy) + m (zno 2x f + pn n px f + xn n xx f)] = A and to kny to my [Fe + Je m + Je n + xe m] = = re + he + xe -

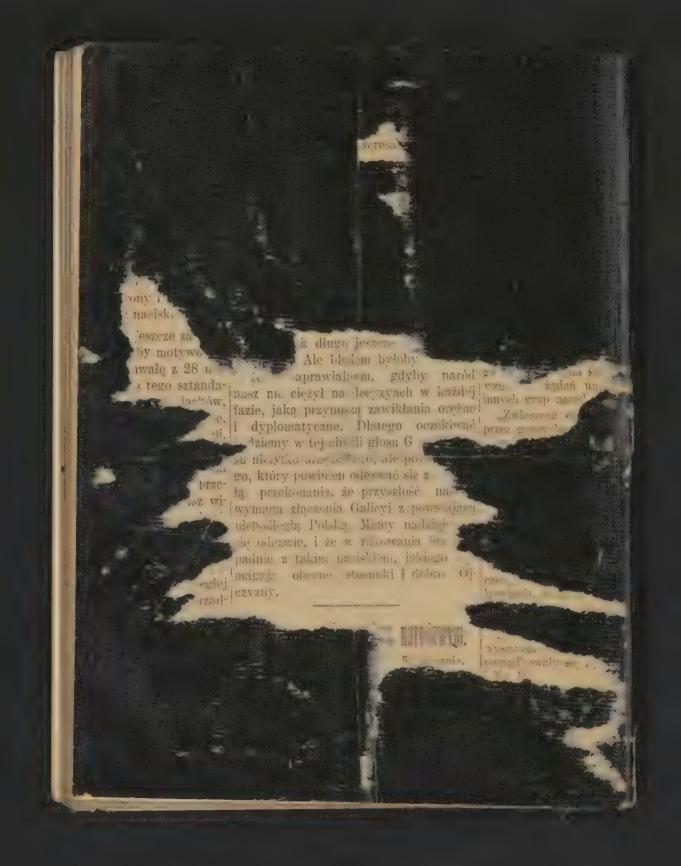
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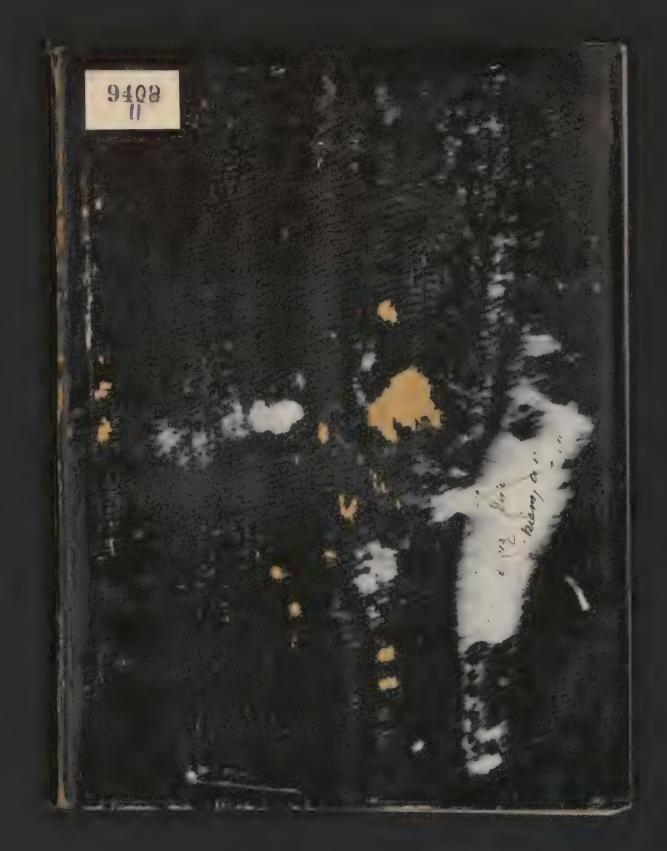
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KARL LUZANSKY
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$$0 = \frac{\partial f_{xx}}{\partial x} + \frac{\partial f_{xy}}{\partial y} + \frac{\partial f_{xz}}{\partial z} = -\frac{\partial f}{\partial x} + \frac{g}{3} \frac{\partial f_{xx}}{\partial x} + g \nabla^2 g$$

$$\frac{\partial \mathbf{h}}{\partial \mathbf{x}} = \mathcal{N} \left(\frac{1}{3} + \frac{1}{3} \frac{\partial \mathbf{h}}{\partial \mathbf{x}} + \mathcal{V} \mathbf{u} \right) \qquad \mathbf{h} = \mathcal{R} \mathbf{p} \, \theta$$

$$\frac{c}{A} \rho \left(u \frac{\partial \theta}{\partial x} + v \frac{\partial \theta}{\partial y} + v \frac{\partial \theta}{\partial z} \right) + \rho \operatorname{dir} = \Phi$$

Praca zery tung

$$\overline{W}_{I} = -\iint_{\Lambda} (n \ell + \sigma m + \sigma n) dF = -\iint_{\delta x} (\lambda u) + \frac{\partial}{\partial y} (\lambda u) + \frac{\partial}{\partial y} (\lambda u) dr$$

$$\overline{W}_{T} = -\mathcal{R} \left\| \theta \left[\frac{\partial}{\partial u} (\rho u) + \dots \right] + \rho \left[\frac{\partial}{\partial u} (\partial u) + \dots \right] \right\|$$

$$-\overline{U}_{I} = \iint \overline{\mathcal{J}} + (R - \frac{c}{A}) \iint \rho(u \frac{\partial U}{\partial x} + \cdots)$$

$$-\overline{W}_{I} = (k-1) \overline{W}_{I}$$

$$\frac{1}{\sqrt{1}} = \iint_{\mathbb{R}^{2}} \left(u \frac{\partial x}{\partial x} + v \frac{\partial y}{\partial y} + v \frac{\partial y}{\partial z} \right) + \int_{\mathbb{R}^{2}} \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z} \right) dv$$

$$\frac{1}{\sqrt{1}} = \iint_{\mathbb{R}^{2}} \left(u \frac{\partial x}{\partial x} + v \frac{\partial y}{\partial y} + v \frac{\partial y}{\partial z} \right) dv$$

$$= -\sqrt{1}$$

7 drugij strong WI = I & do = $\| \left(\frac{\partial u}{\partial x} \right)^{2} + \left(\frac{\partial u}{\partial y} \right)^{2} + \left(\frac{\partial u}{\partial z} \right)^{2} + \left(\frac{\partial v}{\partial x} \right)^{2} + \cdots + \frac{1}{3} \left(\frac{\partial u}{\partial x} \right)^{2}$ $+2\left[\frac{\partial y}{\partial y}\frac{\partial y}{\partial z}+\frac{\partial u}{\partial z}\frac{\partial x}{\partial x}+\frac{\partial y}{\partial x}\frac{\partial y}{\partial y}-\frac{\partial u}{\partial x}\frac{\partial y}{\partial y}-\frac{\partial y}{\partial y}\frac{\partial u}{\partial z}-\frac{\partial w}{\partial x}\frac{\partial u}{\partial x}\right]dv$ | [24 25 - 34 25] ds = | w(m 35 - 24) ds | w 30 - 24 30 ds $= \int \int v \left(n \frac{\partial u}{\partial y} - m \frac{\partial u}{\partial z} \right) dS'$ $\frac{1}{\sqrt{1}} = u \left[\left(\frac{\partial u}{\partial x} \right)^{2} + u \left[\left(\frac{\partial u}{\partial x} \right)^{2} + u \left[\left(\frac{\partial u}{\partial x} \right) + u \left(\frac{\partial u}$ Exten jult moins ramidbai with parties huriou to by drie WI = II co 2 tamby usuttet Tythe study sig spaces mois juli VI = WI = 0 Albo tiz: votovier | | 1 di = 0 pe

Coy motion workson from
$$0 = fy$$

$$\begin{array}{c}
2\pi \\
2\pi \\
3x = f(f^{1} + 2 \frac{di}{2x})
\end{array}$$

$$\begin{array}{c}
2(f^{1}) + \frac{3(f^{1})}{2} + \frac{3(f^{1})}{2}
\end{array}$$

$$\begin{array}{c}
2(f^{1}) + \frac{3(f^{1})}{2}
\end{array}$$

$$\frac{\partial x}{\partial x} = m \left[\frac{1}{3} \frac{\partial u}{\partial x^2} + P_u \right]$$

$$\frac{2}{4} \rho u \frac{\partial \theta}{\partial x} + 1 \frac{\partial u}{\partial x} = \bar{\mathcal{L}}_{u}$$

$$\frac{c}{A}\rho u \frac{\partial \theta}{\partial x} + \mu \frac{\partial u}{\partial x} = \frac{4}{3} \mu \left(\frac{\partial u}{\partial x}\right)^2$$

1=200

$$A = \frac{1}{x-1} \uparrow$$

$$\frac{c}{A} \rho u \frac{\partial \theta}{\partial x} + \frac{\partial}{\partial x} (\mu u) = \frac{4}{3} \mu \left[u \frac{\partial u}{\partial x} + \left(\frac{\partial u}{\partial x} \right)^2 + \frac{4}{3} \mu \frac{\partial u}{\partial x} \right]$$

$$= \frac{2}{3} (\rho u \theta)$$

$$\frac{c}{AR} \mu u + \mu o u = \left(\frac{c}{AR} + 1\right) \mu o u + \frac{4}{3} \mu \frac{c}{AR} u \frac{du}{du} = a$$

$$\frac{4}{3}\mu u \frac{dn}{dx} + k \mu_0 u = (k-1)\alpha$$

$$\frac{4}{3} \mu \ a \frac{da}{dx} + k \mu a u = (k-1)a$$

$$\frac{4}{3} \mu \ a \frac{da}{dx} + \frac{4}{3} \mu \ a \frac{da}{dx} + k \mu a u + k \mu a u = (k-1)a$$

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$$u = (k-1)a$$

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$$\frac{4}{3} \mu \ (u - a) + \frac{4}{3} \mu \ (u - a$$

Bayonor alminary:
$$\frac{1}{2} = \frac{1}{R}$$

$$\frac{1}{2} = \frac{1}{2} = \frac{1}{$$

$$\frac{x}{l} = \frac{\lambda_0}{\lambda} = \frac{(u_1 - u) + \alpha \log(u_1 - \alpha) - \alpha \log(u_2 - \alpha)}{(u_1 - u_2) + \alpha \log(u_1 - \alpha) - \alpha \log(u_2 - \alpha)}$$

(de) = 0

$$\begin{bmatrix} (u_i - u_i) & & & \\ & (u_i - \alpha) & & \\ & & (u_i - \alpha) \end{bmatrix} = e \qquad \begin{pmatrix} u_i - \alpha \\ & u_i - \alpha \end{pmatrix}$$

$$\mu = \frac{1}{100} \frac{k \times - (k+1)u}{u} = \frac{1}{100} \left[\frac{1}{100} + \frac{1}{100} \left(\frac{1}{100} + \frac{1}{100} \right) \right]$$

$$\mu = \frac{1}{100} \frac{k \times - (k+1)u}{u} = \frac{1}{100} \left[\frac{1}{100} + \frac{1}{100} \left(\frac{1}{100} + \frac{1}{100} \right) \right]$$

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$$\mu = \frac{1}{100} \frac{k \times - (k+1)u}{u} = \frac{1}{100} \left[\frac{1}{100} + \frac{1$$

$$\theta = l_{0} \left[k - \frac{k-1}{1+\frac{1}{K(\frac{1}{K}-1)}} \right] = l_{00} \frac{k+\frac{1}{K}-1-K+1}{1N-\frac{1}{K}+\frac{1}{K}}$$

$$= l_{0} \frac{k}{k} \frac{k}{k-1+\frac{1}{K}}$$

$$= l_{0} \frac{k}{k} \frac{k}{k-1+\frac{1}{K}}$$

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$$\frac{1}{k} = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} = 0.0675 \text{ cm}$$

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$$\frac{1}{k} = \frac{1}{2} \times \frac{1}{2} \times$$

Ruchey gerves vorredenigh, zam dbyge: p, pott. $\rho \frac{\partial n}{\partial t} = -\frac{\partial x}{\partial x} + \frac{n}{3} \frac{\partial div}{\partial x} + n Din \qquad \frac{\partial}{\partial x} \qquad \frac{\partial}{\partial y}$ Pat = . 1 P diso + u V diso =0 D'disv=0 | \\ \nabla^2 \xi = \nabla^1 = \nabla^1 = 0 2-24+ unter Prino Justi prostruir vielka, tok in dis o so i combo 20 your working; oblytoni, study: met toki jak inery misseslingch z potanyola mie ma zjacask akartycanys! $u = \frac{\partial \varphi}{\partial x} \qquad v = \frac{\partial \varphi}{\partial y} \qquad v = \frac{\partial \varphi}{\partial z}$ I mich waterand signetylmistors dir 0 = 24 + .. = Dp =0 D'n = 3 Dy =0 N. J. Kula w prestrucció $\frac{3u}{2x} = \frac{1}{2^3} + \frac{3x^2}{2^5} = \frac{2}{2^5} \left(-1 + \frac{3x^2}{2^2} \right)$ To bytoby neumosti om bo na jovimshwah bytyby skłodom noho iliganie, the or monk predussny bo wils nie bydie = O raporali: dis v ind potucky

Romania corplage total new mois wigh, to robge line poo trubaly erobi lit = 00 ordy mieric il il i cryte cytornoug pour tercie. Rhonowye & ustanow sig wo know provodens a right kton total dynos rimmak und a farimmhuri! orbodi marini o rachuly , tok ze bydin: Time Manifer KPD = D Nog. Kala o purterini $\varphi = \frac{Cax}{r^3} \qquad \frac{d}{dx} = \frac{ca^4}{r^3} \left[\frac{1 - 3x^4}{r^3} \right] = u$ 24 = 3cax 4 = 1 - Sp. Plgp1 n= Pp + P | div o do + and fairle dr P div v = dir Po ? Penl v = curl Po (るよくかった)(かけがける) なんのかけかりナー 2 ate Resultat: dir V v =0 curl VV =0 $\therefore \nabla^2_{v} = \nabla \mathcal{U}$ 1 = - 1 div 2 $\nabla y = -\frac{1}{3} \nabla dir v$ 7 divo - curling curl's = 4 V div v

Ny. the planing
$$v = J = 0$$
 oh = 0

 $\frac{1}{3} \frac{\partial^2}{\partial x^2} + \frac{1}{2} + \frac{1}{2} \frac{1}{2} - \frac{1}{2} \frac{1}{2} + \frac{1}{2} \frac{$

Woyle off off termining bedoor badro wienerry, my roy 2012 138 pydhon rach 1 3 dx (3x + dy + dx) + din 7 in + din -0) + dutty + 1 = 0) + かいナかけがって 1 3 22 (die v = U = f(xyx) otuma in Stiveyer dovolnie DX IIP du = It in $\mathcal{V} = \frac{1}{3} \left| \frac{\partial \mathcal{U}}{\partial z} dv + \mathcal{A}_{3} \right|$ v = - 1 / 24 dv + A2 u= - 1 /24 du + A1 $v = -\frac{1}{3} / \frac{VU}{2} dv + 4 Ct$ dir Ot = 0 $\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial u}{\partial z} = -\frac{1}{3} \sqrt{\frac{\nabla u}{\partial x}} + \frac{\partial x}{\partial x} + \frac{\partial x}{\partial y} + \frac{\partial x}{\partial z} + \frac{\partial x}{\partial z}$ $\nabla^2_{u=-\frac{1}{3}} \int \frac{\partial \nabla u}{\partial x} \frac{dv}{2} + \frac{\partial A_1}{\partial x} + \frac{\partial A_2}{\partial y} + \frac{\partial A_3}{\partial z} = c = 0^2.$

moglidninge mertia terms: Indai nolity: The Margh + # [u [u 2 + v 2 n + v 2 n] + dv = | (1 2 + 1 2 + 1 2 + 1 2) . 4 + 1 2 2 dv + v [u ox + v oy + v oz + +1 [リカンナリかかかん] $=-\int \int \frac{u^2h^2 + u^2}{2} \frac{d}{dt} \left(u \left(\frac{1}{t} + v n + w n\right) \right) dx + \int \int \frac{u^2 h^2}{2} \left(\rho u\right) + \frac{3}{2} \left(\rho u\right) + \frac{3}{2} \left(\rho u\right)$ lige down in story tok samo (atho portunto or a m (u n ox m - low + m ox - low) + --= | u & (lut not nu) - lu (du + du + du) + + + + + 1 1/2 - 2 1 = 「「いランナンランなー、は、(部ナディン)」は

2 oten s coloni:

$$\overline{W}_{I} = \overline{W}_{I} + u \int_{0}^{\infty} \left(\frac{u_{I}^{2} + u_{I}^{2}}{2} \right) dv + \frac{1}{3} v_{n} div + \left(u_{2k}^{2} + \cdots \right) v_{n} - v_{n} div \right] ds$$

$$\overline{W}_{\overline{I}} = \overline{W}_{\overline{I}} + \mu \left[\frac{\partial}{\partial n} \left(\frac{v^2}{2} \right) + (\sqrt{v} V) \int_{0}^{\infty} v h \right] - \frac{2}{3} \operatorname{div} v \int_{0}^{\infty} h \right] dS$$

$$\left(\frac{\partial w}{\partial n} \overline{W}_{\overline{I}} = -\overline{W}_{\overline{I}} \right)$$

$$0 = \overline{W}_{I} \left(1 + \frac{1}{x-1} \right) + \gamma \int$$

$$\overline{W}_{I} = \frac{k-1}{K} \int_{V_{i}}^{V_{i}} dx$$

$$\overline{W}_{I} = \frac{1}{2} \left[\frac{\partial u}{\partial x} + \frac{\partial u}{\partial x} + \frac{\partial u}{\partial x} + \frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial y} - \frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} \right]$$

$$= \frac{1}{1000} \left[\frac{\partial u}{\partial x} + \frac{\partial v}{\partial x}$$

$$\frac{1}{2} \left[\frac{\partial u}{\partial x} + \frac{\partial^2 u}{\partial y} \right] = \frac{1}{3} \left[\frac{\partial^2 u}{\partial x} \right] = \frac{1}{3} \left[\frac{\partial^$$

$$\frac{\partial}{\partial y} \qquad \frac{\partial u}{\partial x} + \frac{\partial w}{\partial y} = 0$$

$$\frac{\partial}{\partial x} \qquad \frac{\partial v}{\partial x} - \frac{\partial u}{\partial y} = 5$$

$$u \frac{\partial \xi}{\partial x} + v \frac{\partial \xi}{\partial y} = u \left(\frac{\partial^2 \xi}{\partial x^2} + \frac{\partial^2 \xi}{\partial y^2} \right)$$

$$\frac{\partial u}{\partial x} \frac{\partial \xi}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial \xi}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} = \frac{\partial v}{\partial x} (\vec{r}, \vec{r})$$

$$\int_{\mathbb{R}^{2}} \int_{\mathbb{R}^{2}} \int_{$$

$$\xi = -\left(\frac{\partial^2 \psi}{\partial x} + \frac{\partial^2 \psi}{\partial y^2}\right)$$

Day bordro noty lesso stone by dire pravi =0 20t Ju + Ju = f(4) 2t para tima: (ox toy) for =0 Myrarda! down! Ale moine spilor i rosingi: y= fe.(x,y,n) 4 = 40 + W (3 m)0 4(x,4,4) = 4(x,4,40) + 4 [340,44)

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V=470 2 (Ph) =0 | pn=ky,2) Dt = m [3 our + Pu] n 発力が20 このいかナナラル=東 By = M & DE DKDY 3 = M3 3 2 14 A=NO 1/2 | 2 (Ta) =0 $\nabla u = f_{\cdot}(x)$ A= A 0 (Ph) 20 #M V/ = 3/ 3/(Vu)) D/= 3/ 02 AR Pu [+ dx - pr dx] + 1 du = I France ox - pu ox + pox = D + 1 2 m 4R 1 2x + [= +1] 1 24 = 1 [" ox + k + on = (k-1) \$\overline{\pi}\$ my de + de = m du + m Vn $h = \frac{h}{2} \frac{\partial u}{\partial x} + \varphi(x)$ $\nabla_{\lambda}^{2} = \frac{4}{3} \frac{\partial}{\partial x} (\nabla_{u}^{2}) + \nabla_{\varphi}^{2} = \frac{4}{3} \frac{\partial}{\partial x} (\nabla_{u}^{2})$ de = n Vin + const Symbol Marine & 3 miles e de la constante d Di = dian = m du (Di)

 $\frac{4}{3} \ln u \frac{\partial u}{\partial x} + k \frac{4}{3} \ln \left(\frac{\partial u}{\partial x}\right)^{2} + k c \frac{\partial u}{\partial x} = \left(k-1\right) \left[\frac{4}{3} \left(\frac{\partial u}{\partial x}\right)^{2} + \left(\frac{\partial u}{\partial y}\right)^{2} + \left(\frac{\partial u}{\partial y}\right)^{2}\right]$ $\frac{d}{d} \left(\frac{\partial u}{\partial x} + \frac{\partial^{2}u}{\partial y} + \frac{\partial^{2}u}{\partial y}\right) = \mathcal{R}(x)$ $d = \frac{2}{3} + \frac{2}{3$

th = 20 + 2, x + 22 x + 6, y + 6 12 11

Adu = Edi Pudu = - 22 + All Apude + 1 du = 0 the day 1 = 200 A Pour dx + (po- 4 pour) dn =0 an up = Encho-Ponon) $\mu^2 \left[\frac{c}{AR} + \frac{1}{2} \right] \rho_{0} u_0 - u \left[\frac{c}{AR} + 1 \right] \rho_{0} = \alpha$ ni (KH) Pano -24 k po = A

Pour du = - gx THE TOTAL TO THE TO AR + K-0 1 = (fo) k p=po(uo) k Po 40. m + po (40) = po u = unt.!

 $\frac{dy}{dx} = \frac{4}{3} \ln \frac{d\tilde{u}}{dx}$ $\frac{d}{dx} \left(\rho u \right) = 0$ $\frac{d}{dx} \left(\rho u \right) = 0$

Nystye kelisty $u = \# A \stackrel{\times}{\sim} \qquad = A \stackrel{\times}{\sim} \qquad = 29$

 $\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial u}{\partial z} = 3\varphi + \varphi' x$ $\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z} = 4\varphi' \frac{x}{y} + \varphi'' x$

 $\frac{\partial}{\partial x} \left(\frac{\partial u}{\partial x} + \right) = 4 \varphi' \frac{x}{2} + \varphi'' x$

 $\frac{4}{3} = \frac{4}{3} \left[\frac{4}{9} \left(\frac{1}{2} + \frac{1}{9} \right) \right]$ $= \frac{4}{3} \left[\frac{1}{3} \left(\frac{1}{3} + \frac{1}{2} + \frac{1}{2} \right) \right]$

I). $4n^{2} \varphi r \rho = wn t$ $\varphi \rho r^{3} = wn t$ $\rho d(\varphi r^{3}) + \varphi r^{3} d\rho = 0$ $\rho (\varphi' r^{3} + 3 r^{2} \varphi) + \varphi r^{3} d\rho = 0$ $(3\varphi + \varphi' r) + \varphi r^{3} d\rho = 0$ $(3\varphi + \varphi' r) + \varphi r^{3} d\rho = 0$

₽=

 $\frac{\partial u}{\partial x} = \varphi + \varphi' \frac{x^2}{x^2}$ $\frac{\partial u}{\partial x} = \frac{3x}{2} \varphi' - \varphi' \frac{x^2}{x^3} + \varphi'' \frac{x^3}{x^2}$ $\frac{\partial u}{\partial y} = \varphi' \frac{xy}{x}$ $\frac{\partial u}{\partial y} = \varphi' \frac{xy}{x}$ $\frac{\partial u}{\partial y} = \varphi' \frac{xy}{x}$

 $\frac{\partial^{2}u}{\partial x^{2}} = \varphi'\left(\frac{x}{2} - \frac{x^{2}}{2^{3}}\right) + \varphi''\frac{x^{2}}{2^{2}}$

$$\frac{\partial u}{\partial x} = \varphi + \varphi' \frac{x^{2}}{x^{4}}$$

$$\frac{\partial u}{\partial y} = \varphi' \frac{xy}{x^{4}}$$

$$\frac{\partial u}{\partial y} = \varphi' \frac{xy}{x^{2}}$$

$$\frac{\partial v}{\partial y} = \varphi' \frac{y^{2}}{x^{2}}$$

$$\frac{\partial v}{\partial y} = \varphi' \frac{y^{2}}$$

 $\frac{5}{AR} \left(4 \varphi' + 2 \varphi'' \right) \varphi R + \left(1 + \frac{5}{AR} \right) \left(3 \varphi + 2 \varphi' \right) \left(3 \varphi + 2 \varphi' + \frac{2}{4R} \right) = R^2 \varphi'^{2}$ $\int_{0}^{2} \frac{1}{3} e^{-\frac{1}{3} R} \left(3 \varphi + 2 \varphi' \right) \left(3 \varphi + 2 \varphi' + \frac{2}{4R} \right) = 0$ $(4\varphi' + n\varphi'')\varphi r - (k-1) r^2 \varphi'^2 + k (3\varphi + n\varphi')(3\varphi + n\varphi' + P_0) = 0$ 2 4 4" + HAM 412 [22 (1-K) + k2] + 4'[424 + 6k24 + Pok2] + + 9 k 42 + 3 k 4 % = 0 2 (\q \q'' + \q'^2) + \q' [2 \q (2 + 3 k) + k \q ?] + 3 k \q [3 \q + ?] = 0 d (99') $r^{\frac{1}{2}} \frac{d}{dr} (\varphi \varphi) + \varphi \varphi' \cdot 4r^{3} + K (6 \varphi \varphi'_{2} + W) + \frac{1}{2} + \frac{1}{2}$ KPo (4/2+3 p)= $\frac{d}{dr}(\varphi\varphi'r^4) + 3k[2r^3\varphi\varphi' + 3r^2\varphi^2]$ de (23/2). $\frac{d}{dr}(\varphi r^2)$ $\varphi \varphi' r^4 + 3k \varphi^2 r^3 + k \mathcal{P}_0 \varphi r^3 = a$ 99' + 3kg2 + k2, 4 = 24 de dz + 6 k \frac{z}{2} + k Po 12 \frac{12}{2} = \frac{a}{2}, np=y $r\varphi'+\varphi=dy$ 2y(2 dy -y) + 3k2 y2 + KP, 22y = 4 1 p # = r dy - y 2 y dy + (3k-1) 2y2 + k7, 22y= a y dy + (3k-1) + k? y = = = 2

10

$$\frac{dy}{dx} + (2k-1) \frac{dy}{dx} + k \frac{\partial}{\partial x} = 0$$

$$y = u v$$

$$\frac{dy}{dx} = u \frac{dy}{dx} + v \frac{dy}{dx}$$

$$u^{2}v \frac{dy}{dx} + u v^{2} \frac{dy}{dx} + (3k-1) \frac{u^{2}v^{2}}{2} + k \frac{\partial}{\partial x} u v = \frac{\alpha}{2}v$$

$$u^{2} \int v \frac{dy}{dx} + (3k-1) \frac{v^{2}}{2} + u \frac{du}{dx} \cdot v^{2} + k \frac{\partial}{\partial x} u v = \frac{\alpha}{2}v$$

$$\frac{\partial}{\partial x} v = -(3k-1) \frac{\partial}{\partial x} v$$

$$v = \int v \frac{1}{2} \frac{dx}{dx} + u \frac{\partial}{\partial x} v + v \frac{\partial}{\partial x} v$$

$$\frac{1}{\sqrt{2}} = \frac{c}{\rho} \qquad \frac{\rho}{\rho^{2} n^{3}} = \frac{c}{\rho} \qquad \frac{\rho}{\rho^{2} n^{3}} = \frac{c}{\rho^{2} n^{3}} = \frac{c}{\rho^{2}$$

$$u \left[\frac{dv}{dz} + v + \frac{3k\pi}{2} + \frac{\kappa P_0}{c} \frac{u^2 v^2}{z^2} \right] + v \frac{du}{dz} = \frac{a}{c^2} u^3 v^2$$

$$\frac{du}{dz} + (3k-1) \frac{4^2}{2^2} + \kappa P_0 \frac{4}{2} = \frac{a}{2^3}$$

Dirodynamisue dourormason, povolne:

$$I\left\{\frac{\partial f}{\partial x} = \frac{1}{3}\frac{\partial f}{\partial x}\left(\frac{\partial f}{\partial x} + \frac{\partial f}{\partial x}\right) + \sqrt{\left(\frac{\partial f}{\partial x} + \frac{\partial f}{\partial x}\right)} \left(\frac{\partial f}{\partial x} + \frac{\partial f}{\partial x}\right)\left(\frac{\partial f}{\partial x} - \frac{\partial f}{\partial x}\right) = 0$$

Juil orthogy fort you hydri!
$$u = \frac{\partial p}{\partial x}$$
 $v = \frac{\partial p}{\partial y}$

$$f = \frac{1}{3} \left(\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} \right) + \mu \left(\frac{\partial v}{\partial x} + \frac{\partial v}{\partial y} \right) + \mu \left(\frac{\partial v}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial v}{\partial x} \right)$$

Elizaina up + 1 = Rpo 1 0 30 + 10 30 = 12 3 What: 3x = /3 3x (3x + 3x) + n 3x (3x + 5x) p 2/ = 4/3 = 4/3 /)4 J. 1= 和+智(就+说) II). 24 2+ 20 3+ 4 1 Pp = (k-1) \$ $\Phi = -\frac{2}{3}n(\nabla \dot{\varphi})^2 + 2\sqrt{(2\dot{\varphi})^2 + (2\dot{\varphi})^2} + 4(2\dot{\varphi})^2$ 1 = 4/2 (3/4) + (3/2) - 3/4 2/4 + 3 (3/4) I). 其了=含了完大部)+加了(部片)=当下(部下部) I foling resitat 1= 4/3 (20 + 20 + 20) + A | VÀ =0

Totoremis in $A = p_0 = m_0 t$: $\frac{4}{3} \frac{u}{h} \left(\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial x^2} \right) + \frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{$

v= q. u Na porsitrohund h musi byi voom wisnis u 20 Avyotire: \$1.22. tem musi v= u(R-4) = 0 u-u2 or = n ox + pox d[1-13(24+ 24+ 2) = 24 dx + 34 dy + 34 dz = grand property product of the day + Vir day) = m S(Pp. db) mereliner 65 drogs Nad Kryng zanknigtz i $\int d[t] \int = 0$ $\int S(\vec{r}, d\vec{r}) = 0$ Inudseri Statusa: /s(M.coml (h) dS = \s((h.db)) $\iint S(N, courl P'v) dS'=0 \qquad courl P'v = V courl v = V$ art = Phi - To Mgc Pv= Pil = Pdis - unl'o and Pr=-and o - and Fation = Peurly- Policarto (Vinde+ Vudy + Vudz) = V Jude to dyto de

Lyeng dry rodroj: On the three (In The 1 = A | VA =0 $n \frac{\partial t}{\partial x} + v \frac{\partial t}{\partial y} = (k-1)\sqrt{2(\frac{\partial u}{\partial x})^2 + 2(\frac{\partial v}{\partial y})^2 + 2(\frac{\partial v}{\partial y})^2 + (\frac{\partial v}{\partial y} + \frac{\partial v}{\partial y})^2 + - }$ $u\left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}\right) + v\left(\frac{\partial v}{\partial x} + \frac{\partial^2 v}{\partial y}\right) = (k-1)\left[2\left(\frac{\partial u}{\partial x}\right)^2 + 2\left(\frac{\partial v}{\partial y}\right)^2 + \left(\frac{\partial v}{\partial x} + \frac{\partial u}{\partial y}\right)^2\right]$ 12 th 2014 20 1 + 1 20 u din + di du to du do + 1 do =0 1 do + du) + du dv + v du =0 Roll Hogel Ha Kovdy portundur gelni 1-1-0 Aldaloge u Mas Kennek styring oterymy ig 2 II; morn day 3 = 0 [co dosvolone portivoi tythe privare portiva] $k \mu \frac{\partial v}{\partial y} = (k-1)u \left[-\frac{2}{3} \left(\frac{\partial v}{\partial y}\right)^2 + 2\left(\frac{\partial v}{\partial y}\right)^2 + \left(\frac{\partial u}{\partial y}\right)^2 + (k-1)\kappa \nabla^2\theta$

* I wystyr moto : 20 =0 2 ways uptrology an = of 22! La prando: ciglo zostani vyrjane dojoh In 20 poluos gdy not zo my painer chini, rate musically notapic granie - chyly is ? - 10 lub tui : unoglydnienie pueroben'e ciyl ! soinen tokin dlaggettich nehon warnem n. p dla pry yn gan pun muski morghednothrow puron too vierte due Later advokaty una tronga bydnie niemals co 27. dla much stockonatys One were six works shore of upting prepoduction wife noting in make na pred form! Co prouda ie mount mois byé tytho up dlo you saty a doir. Kalvino Zh prodik helse gog ideznamijng nis dobry My zot wing juggen ptimings: strate. u= 40+ 8pt bp2 20 = a+ 210 =0 } アマヤラットルラウナリラックラ In 40 40 8+ 65=0 4. + 5 (a+265)- 182=0 (3h)= - m (3h + 3h + 3h) Le no Robize zolsienie ie $\frac{\partial \theta}{\partial x} = \frac{\partial \theta}{\partial x} = 0$ += - ? Luo $\left(\frac{3u}{3y}\right)^2 = -\frac{k}{2u} \cdot \frac{30}{3y^2}$

Burki Norkovate

Hyrovadroje nykt prythiens z vygotte en romano tumieny ;

I)
$$u = \frac{1}{\sqrt{2}} + k \int_{-\infty}^{\infty} \frac{\partial u}{\partial x} = (k-1) \left[\left(\frac{\partial u}{\partial y} \right)^{2} + \left(\frac{\partial u}{\partial z} \right)^{2} \right] u + \kappa \Delta^{2}\theta$$

(34) 7 (D) = (4)2

$$u = f(x, r)$$

$$\frac{\partial^{2} u}{\partial y^{2}} = \int_{0}^{10} \frac{y^{2}}{h^{2}} + \int_{0}^{1} \left(\frac{1}{h} - \frac{y^{2}}{h^{2}}\right) \left\{ \frac{\partial^{2} u}{\partial y} \cdot \int_{0}^{1} u = \int_{0}^{10} d(x) \int_{0}^{10} u = \int_{0}^{10} d(x) \int_{0}^{10}$$

$$\frac{d\mu}{dt} = \frac{1}{n} \frac{\partial}{\partial r} \left(r \frac{\partial u}{\partial r} \right) = \mu \left[\frac{\partial u}{\partial r} + \frac{1}{n} \frac{\partial u}{\partial r} \right]$$

$$u \frac{dx}{dx} + k \int \frac{\partial u}{\partial x} = (k-1) \left(\frac{\partial u}{\partial x} \right)^2 + \frac{\kappa}{\mathcal{R}} \frac{1}{n} \frac{\partial}{\partial x} \left(\frac{1}{n} \frac{\partial}{\partial x} \left(\frac{h}{n} \right) \right)$$

$$= -\frac{Kh}{R} \frac{1}{n} \frac{\partial}{\partial n} \left[\frac{n}{\rho^2} \frac{\partial \rho}{\partial n} \right]$$

$$\frac{\partial}{\partial x} \left(\frac{\partial^2 u}{\partial x^2} + \frac{\partial}{\partial x} \frac{\partial u}{\partial x} \right) = 0$$

$$\frac{\partial}{\partial z} \left(z \frac{\partial u}{\partial z} \right) = z \varphi(x)$$

pn = fe.(n).

$$\frac{\partial h}{\partial r} = \frac{\lambda}{2} \varphi(\lambda) + \frac{1}{\lambda} \varphi(\lambda)$$

 $\int \frac{1}{4} [\varphi(x)]^2 + \lambda y_A \quad y_{(k)} + \chi_{(k)} \varphi_{(k)} + \lambda \int \frac{1}{4} [\varphi_{(k)} \int \varphi_{(k)} dx + \lambda \int \varphi_{(k)} \varphi_{(k)} dx + \chi_{(k)} \int \varphi_{(k)} dx = (k-1) [\varphi_{(k)}]^2$ $(2) \quad \varphi_{(k)} + \chi_{(k)} \int \varphi_{(k)} dx = (k-1) [\varphi_{(k)}]^2$ $(3) \quad \varphi_{(k)} + \chi_{(k)} \int \varphi_{(k)} dx = (k-1) [\varphi_{(k)}]^2$ $(4) \quad \varphi_{(k)} + \chi_{(k)} \int \varphi_{(k)} dx = (k-1) [\varphi_{(k)}]^2$ $(4) \quad \varphi_{(k)} + \chi_{(k)} \int \varphi_{(k)} dx = (k-1) [\varphi_{(k)}]^2$ $(4) \quad \varphi_{(k)} + \chi_{(k)} \int \varphi_{(k)} dx = (k-1) [\varphi_{(k)}]^2$ $(4) \quad \varphi_{(k)} + \chi_{(k)} \int \varphi_{(k)} dx = (k-1) [\varphi_{(k)}]^2$ $(4) \quad \varphi_{(k)} + \chi_{(k)} \int \varphi_{(k)} dx = (k-1) [\varphi_{(k)}]^2$ $(4) \quad \varphi_{(k)} + \chi_{(k)} \int \varphi_{(k)} dx = (k-1) [\varphi_{(k)}]^2$

 $(1+k) \frac{\chi'}{\chi} - \frac{\chi''}{\chi'} = \alpha \frac{4-k}{2-k}$ $(1+k) \frac{2}{3} \chi - \frac{2}{3} \chi' = \alpha \frac{4-k}{2-k} \times +$ $\frac{\chi'}{\chi^{1+k}} = c e$ $\chi^{-k} = -\frac{c}{k} \int_{e}^{k-k} dx$

When $k = \frac{k-2}{k} \left[2\varphi - \frac{\varphi^2 \varphi^2}{\varphi^2} \right]$ $k \varphi = \frac{k-2}{k} \left[2\varphi - \frac{\varphi^2 \varphi^2}{\varphi^2} \right]$ $K - 4 = (k-2) \varphi \varphi^2$ $\frac{k-4}{k-2} \varphi' = \frac{\varphi''}{\varphi'}$ $a \frac{k-4}{k-2} \varphi = \frac{\varphi''}{\varphi}$ $a \frac{k-4}{k-2} \varphi = \frac{\varphi''}{\varphi}$ $\varphi' = a \frac{k-4}{k-2}$ $\varphi = b e$

Sichy sommik uso na pove by nutriony musiotely by: 5 y(x) + x(x)=0 X(x) = - 5 Px Is myngsty: $\varphi^2 + k \varphi' / \varphi = 0$ Co mi zgadræ sig 2 roman dla 4 2 ste vyste niemostry do spolusinte juils K=0 1 juli reshowing tente proflering $u = \frac{n^2 - \delta^2}{4} q(x)$ Judovei pry KZO: $\frac{\partial u}{\partial r} = \frac{\partial u}{\partial r} + \frac{\partial u}{\partial r} = \frac{\partial u}{\partial r} =$ # Pu = f(2): 3 = 0 : $\frac{x^2-S^2}{4}\frac{\partial}{\partial x}(\rho\,\varphi)=0$ 30 p + p 30 =0 g'(z) = f(z)p=n/q dx de = mq $\frac{n^2-5^2}{4}\mu_{\varphi(k)} + k_{\mu}\frac{n^2-5^2}{4}\varphi'\int_{\varphi} = \mu(k-1)\frac{n^2}{4}\varphi''_{ij} + \frac{\kappa_{i}\varphi(k)}{2}F_{(r)}$. Turi by medion mondein I de Lidge : ix

 $(r^{2}-\delta^{2})[\varphi_{ix}^{2},+k\varphi_{ix}]\varphi_{ix}^{2}] = (k-1)r^{2}\varphi_{ix}^{2},+\frac{4k}{\mu R}\varphi_{ix}^{2},F_{ix}^{2}$ $r^{2}[2-k)\varphi_{ix}^{2},+k\varphi_{ix}^{2}]\varphi_{ix}^{2}-\delta^{2}[\varphi_{ix}^{2},+k\varphi_{ix}^{2},\varphi_{ix}^{2}] = \frac{4k}{R_{ph}}\varphi_{ix}^{2},F_{ix}^{2}$ 2n[$=\frac{4k}{R_{ph}}\varphi_{ix}^{2},F_{ix}^{2}$ $=\frac{4k}{R_{ph}}\varphi_{ix}^{2},F_{ix}^{2}$ $=\frac{4k}{R_{ph}}\varphi_{ix}^{2},F_{ix}^{2}$ $=\frac{4k}{R_{ph}}\varphi_{ix}^{2},F_{ix}^{2}$

年 - 1 log \$ = 2y 2+ .. F'=Man = df $F = a \frac{n^2}{4} + b$ (2-k) \(\varphi^2 + k \(\varphi' \) \(\varphi = \frac{22 \times \varphi}{\times \pi_m} \\ \varphi \\ \| - \sum_{\text{Tp}}^2 + k \(\varphi' \sum_{\text{Tp}} \) \(\varphi \) \(\frac{22 \times \text{Tp}}{\text{Rm}} \\ \varphi \) 2(2-1) 4p' + ky" + kp'p = 20k p' [2-k][\varphi^2\varphi'2] \ \k\varphi'\varphi = \frac{2\alpha\k}{\Rm} [\varphi\varphi' [2-k][4"-24]-k4=20x[4-42] (4-K) 9 = W[2ak + 61 k] Which shook: $\theta = \frac{h}{Rp} = \frac{hu}{Rpu} = \frac{nu}{R} \frac{\frac{nu}{n} \frac{1}{n} put}{R}$

$$\frac{1}{2} \frac{\partial}{\partial n} \left(n \frac{2\theta}{nn} \right) = \frac{1}{4} \frac{1}{4} \frac{1}{4n} = \frac{1}{4} \frac{1}{4n} \frac{1}{4n} + \frac{1}{4n} \frac{1}{4n} \frac{1}{4n} + \frac{1}{4n} \frac{1}{4n} \frac{1}{4n} + \frac{1}{4n} \frac{1$$

$$P = \frac{h}{R\theta}$$

$$Pu = \frac{h^{\frac{2-\delta^2}{4}}}{R} \frac{\varphi}{\theta + \frac{2-k}{R}} \frac{h^{\frac{2-k}{4}}}{\theta + \frac{R}{R}} \frac{2-k}{R} \frac{h^{\frac{2-k}{4}}}{R} \frac{R(x^{\frac{2}{4}} - 54 - 42 - k)5^{\frac{2}{4}} + 4(2-k)5^{\frac{2}{4}})}{R}$$

$$M = \frac{2i}{2} \int x \rho u \, dx = \frac{1}{2} \frac{1}{R} \frac{\varphi}{\theta} \int \frac{(x^3 - x\delta^2)}{\theta + -} \, dx$$

$$\int \frac{2i}{2} \frac{1}{R} \frac{2i}{2} \frac{2i}{2} \frac{1}{R} \frac{2i}{2} \frac{$$

$$\frac{\partial^3 u}{\partial y^3} = 0$$

$$u = \frac{4^2}{2} \cdot \varphi(x) + y \cdot \psi(x) + \chi(x)$$

$$\rho u = f(y) .$$

$$\frac{\partial u}{\partial y} = \frac{y}{\sqrt{u}} \frac{dy}{\sqrt{x}} + \psi(x)$$

$$u = \frac{y(y-\delta)}{2} \frac{1}{\mu} \frac{dx}{dx}$$

$$\frac{\partial n}{\partial y} = \frac{2y - \delta}{2\mu} \frac{d\mu}{dx}$$

$$\rho u = y(y-0) dy \rho = f(y)$$

$$\rho = \frac{f(y)}{dy} \int_{\rho}^{1} \frac{dx}{f(y)} dy$$

$$\frac{dy}{dy} \int_{\rho}^{1} \frac{dy}{f(y)} dy$$

$$\frac{1}{2} \left[\frac{1}{2} \right]^{2} + k + \frac{1}{2} \left[\frac{1}{2} \right]^{2} = (k-1) \left[\frac{1}{2} \right]^{2} \left[\frac{1}{2} \right]^{2} + k + \frac{1}{2} \left[\frac{1}$$

$$(3^{2}-y) \begin{bmatrix} -(\frac{k-1}{y})^{\frac{k}{2}} & \frac{k}{2} \end{bmatrix}^{2} = k \frac{k}{2} \frac{k}{2} \begin{bmatrix} \frac{a}{2}(y^{2}-y) + b \end{bmatrix}$$

$$(\frac{2}{2}-k)(\frac{dy}{dx})^{2} + \frac{k}{2} + \frac{dx}{dx} = \frac{a}{2} \frac{k}{2} + \frac{dx}{dx}$$

$$(\frac{k-1}{2})^{\frac{k}{2}} \frac{dy}{dx} = -b \frac{k}{2} + \frac{dx}{dx}$$

$$(\frac{k-1}{2})^{\frac{k}{2}} \frac{dy}{dx} = -b \frac{k}{2} + \frac{dx}{dx}$$

$$(\frac{k-1}{2})^{\frac{k}{2}} \frac{dy}{dx} = -\frac{4}{2} \frac{k}{2}$$

$$(\frac{k-1}{2})^{\frac{k}{2}} \frac{dy}{dx} = -\frac{4}{2} \frac{k}{2}$$

$$(\frac{k-1}{2})^{\frac{k}{2}} \frac{dy}{dx} = -\frac{4}{2} \frac{k}{2}$$

$$(\frac{k-1}{2})^{\frac{k}{2}} \frac{dy}{dx} = -\frac{k}{2} \frac{k}{2} \frac{k}{2}$$

$$(\frac{k-1}{2})^{\frac{k}{2}} \frac{dy}{dx} = -\frac{k}{2} \frac{k}{2} \frac{k}{2}$$

$$(\frac{k-1}{2})^{\frac{k}{2}} \frac{dy}{dx} = -\frac{k}{2} \frac{k}{2} \frac{k}{2} \frac{dy}{dx} = -\frac{k}{2} \frac{k}{2} \frac{k}{2} \frac{dy}{dx} = -\frac{k}{2} \frac{dy}{dx} = -\frac{k}{2} \frac{dy}{dx} = -\frac{k}{2} \frac{dy}{dx} = -\frac{k}$$

$$\mathcal{R} = \frac{1}{f(y)} \qquad \mathcal{R} = \frac{1}{f(y)} \qquad \mathcal{R$$

Adiabety and

 $\frac{dx}{dx} = m_1 \frac{\partial}{\partial x} \left(x \frac{\partial u}{\partial x} \right)$

34 =0

1 = (P) k

p = h(x)

=0

pu= fc.(2)

p mirdian od 2 sate : 32 \$\[\frac{32}{32} + \frac{32}{2} = 0

The dy = m pay

ide = k p k-1 dp

3/252 kp. pla + 11 0

 $\frac{r^{2}-S^{2}}{4n} \frac{k_{10}}{\rho_{0}} = \frac{k_{11}}{k_{11}} = Xf(x) + y(x)$ $= (x^{2}-S^{2}) (Ax + B)$

 11= 2 4x + merge + fer)

 $u = \frac{x^2 - \delta^2}{4} \varphi(x)$

 $u = \frac{r^2 - d^2}{4\mu} \frac{dx}{dx}$

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odobni jek prny
isotrandem vostlodni tjeho
il 1+k ma in jin i

Testermiene 2 moglyduren 300 $\frac{dx}{dx} = \mu \frac{\partial u}{\partial y^2} + \frac{4}{3} \mu \frac{\partial u}{\partial x^2} \qquad f(x) = \mu \frac{\varphi(y)}{f(x)} + \frac{4}{3} \mu \frac{\partial u}{\partial y} \frac{\partial u}{\partial x^2}$ 2(0 m) =0 = 2(m) =0 f'(x) f(x) = m 4"(y) + \frac{1}{3} m 4(y) f(x) \frac{d}{dx \left(x)} Noili our tylko juli: # 11/10/10 fix) fix) = 1 a fu, d []= #c q == 立意 12 $f^2 = 2a \times + b$ $-\frac{f''}{f^*} + \frac{2f'^2}{f^2} =$ P= Zaxto f' = a $+\frac{a^2}{(2a+6)^2}+\frac{2a^2}{()^2}=$ $f'' = -\frac{a^2}{(1-a)^2}$ Memoilier opose juli 2=0 A. ze pe will dy motinosi: p'y, =a qy = & nimostro bo dyta 4=. taten to worth nic moi by payto oven do worther poregthery (John matin: 1 = worth let pu = worth

Loturnisme & ungledway 2 minmor p, juli v, v 20 The month of som 27 =

$$bn = \frac{\partial \lambda}{\partial \lambda} \qquad bn = -\frac{\partial \lambda}{\partial \lambda}$$

$$\frac{\partial v}{\partial x} = \frac{\partial v}{\partial x}$$

$$\frac{\partial v}{\partial x} = \frac{\partial v}{\partial x}$$

$$\frac{\partial v}{\partial y} = \frac{\partial v}{\partial x}$$

$$u = \frac{1}{p} \frac{\partial y}{\partial y} = \frac{R\theta}{p} \frac{\partial y}{\partial y}$$

$$v = -\frac{1}{p} \frac{\partial y}{\partial x} = -\frac{R\theta}{p} \frac{\partial y}{\partial x}$$

$$\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} = \frac{-1}{\rho} \left(u \frac{\partial e}{\partial x} + v \frac{\partial e}{\partial y} \right)$$

$$= -\frac{1}{\rho^2} \left(\frac{\partial v}{\partial y} \frac{\partial e}{\partial x} - \frac{\partial v}{\partial x} \frac{\partial e}{\partial y} \right)$$

$$\frac{\partial u}{\partial y} + \frac{\partial v}{\partial x} = -\frac{1}{\rho^2} \left(\frac{\partial e}{\partial y} \frac{\partial v}{\partial y} - \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} \right)$$

$$+ \frac{1}{\rho} \left(\frac{\partial v}{\partial y} - \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} \right)$$

$$\frac{\partial v}{\partial x} - \frac{\partial u}{\partial y} = + \frac{1}{\rho^2} \left(\frac{\partial e}{\partial y} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} \right)$$

$$\frac{\partial v}{\partial x} - \frac{\partial v}{\partial y} = + \frac{1}{\rho^2} \left(\frac{\partial e}{\partial y} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} \right)$$

$$\frac{\partial v}{\partial x} - \frac{\partial v}{\partial y} = + \frac{1}{\rho^2} \left(\frac{\partial e}{\partial y} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} \right)$$

$$\frac{\partial v}{\partial x} - \frac{\partial v}{\partial y} = + \frac{1}{\rho^2} \left(\frac{\partial e}{\partial y} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} \right)$$

$$\overline{\Phi} = \frac{4}{3} \ln \left[\left(\frac{2\pi}{3n} \right)^2 - \frac{2\pi}{3n} \frac{3n}{3n} + \left(\frac{3n}{3n} \right)^2 \right] + \ln \left[\frac{3\pi}{3n} + \frac{3n}{3n} \right]^2$$

$$=\frac{1}{\rho^4}\left[\left(\frac{\partial y}{\partial y}\frac{\partial \rho^2}{\partial x}+\left(\frac{\partial x}{\partial x}\right)^2\right)^2+\frac{1}{\rho^2}\left(\frac{\partial y}{\partial x}\right)^2-\frac{1}{\rho^3}\frac{\partial^2 y}{\partial x\partial y}\left[\frac{\partial \rho}{\partial x}\frac{\partial y}{\partial y}+\frac{\partial \rho}{\partial y}\frac{\partial y}{\partial x}\right]$$

$$k + \left(\frac{3u}{3x} + \frac{3u}{3y}\right) = \frac{4}{3} \frac{1}{6} \left(\frac{3u}{3x} - \frac{3x}{3y} + \frac{3y}{3y} + \frac{3y}{3y}\right)^{2} + \frac{3u}{3x} + \frac{3u}{3y} + \frac{3u}{3y$$

2x = 3x 24 2 = 2 = TOP = = 5 = 5 = 1 stoy = die of de de de x (a, x2+ 1 + a, y2) + a3 3 = 3 a1x2 + a2 y2 3 = 2 22x4 3 = 2 62x4 $\frac{\partial u}{\partial x} = \frac{1}{6} a_{1} x + \frac{\partial u}{\partial y} = 2 a_{2} x + \frac{\partial v}{\partial y} = 2 a_{2} x + \frac{\partial v}{\partial y} = 2 a_{3} x$ Th = 4/h 6 a1 x + /3 2 bry + 12 a2x = 1 (8 a1 + 2 a2) x + 2/3 bzy 2 brx + 1/3 2azy + 1 6 byx = m (3 br + .6 b,) x + 2/3 ozy Busy lyn= = = (in ox) = - in ox oy + 1 dingy b2 = - 3 by

$$\frac{|a| \frac{8}{3} a_3 + \frac{1}{3} b_4 + 2 a_5| (a_0 + a_1 x + a_2 y + a_3 x^2 + a_4 x y + a_5 y^2) + (a_1 + b_3 y^2) + (a_1 + a_3 x + a_4 y) + (a_1$$

A as + O bs + K B (2 fs + a4) = (K-1) \[\frac{4}{3} \left(a_4^2 + 4 \begin{array}{c} 6 \cdot 2 \cdot 2 \cdot 5 \end{array} \right) + (2 as + b4)^2 \right] 1100 Spirtorai 20=60 = az = bz = 05 = 65=0 tion ie u= v= 0 no mix M(8/3 0, + 1/3 b4) (0, x + 0, x2 + 04 x4) + (8/3 b3 + 1/3 04) (b, x + b, x2 + b, xy) + + k [to + (8 a3 + 1 b4) x + (8 b3 + 1 a4) y] [e1 + b1 + (2 a3 + b4) x + (1 a4)] = (K-1) [= { (0, + 2 a, x + a, y) + (b, x) - (a, + 2 a, x + a, y) b, x } + [1 + (a4+2 b3) x + b4y]2 6 Hornan's no spolymik y' 1 Juli rowns winns mejs 4, 8 bi=0 n = x (2, + 2, x + 2, y) na drujiej protij to shuba tak ie v= x(1, + bx + by) a, : h, = a3: b = e4: b4 (8 03 + 1 3 64) a4x + (1 3 + 1 a4) b4x + (2 3+64) x+ a,y) + + ex[= + ()x+(= b3 + 3 e4) y] = = (k-1) [2 a/ (0,+ 2a, x+a, y) - ay b/x + 2 [1,+(a, 1 b) x + b,2)] $\left\{ \left(\frac{8}{3} \, \hat{l}_3 + \frac{1}{3} \, a_4 \right) a_4 + a_4 \left(\frac{9}{3} \, \hat{l}_3 + \frac{1}{3} \, a_4 \right) \right\} = (K - 1) \left(\frac{8}{3} \, a_4^2 + 2 \, b_4^2 \right)$ k/a4(8/3/3+1/3/24) =

Consider of words and from
$$y$$
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Zaniety tarin ; agree poly .

21 = 2 d (00) = 2 (00) + 2 do 10 + 0 do

TP = Dr [Rp 0] Job

 $\frac{1}{k} \frac{R}{k-1} \left(\frac{\partial \theta}{\partial t} + \frac{\partial \theta}{\partial x} \right) + \frac{\partial \theta}{\partial x} = k \frac{\partial \theta}{\partial x}$

R 1 8 24 + - R 8 34 = X 34

Onythrine officerie:

20 + 6 du + 11 20 =0

syongs u= a or (xx-pt)

9 = - Po & ~ (2x-pt)

H= fra

W= Rpuo ho du+ 3 m (du) + 4 m die

D jednovymierovem 2 ademi : oplyv K

 $\int \frac{df}{dx} = \frac{4}{3} \ln \frac{d^{2}u}{dx^{2}} \qquad \rho u = \rho_{0} u_{0}$

udr + k p du = (k-1) 4 n (dx) + (k-1) k dx

1= 10 + 3 p du

3/n n du + k po du + 3/n k (du) = 3/n k (du) - 3/n (du) 2+ (k-1) x du

 $\frac{4}{3}\mu\left[n\frac{d^{2}n}{dx^{2}}+\left(\frac{dn}{dx}\right)^{2}\right]+k\rho\frac{dn}{dx}=(k-i)\kappa\frac{d^{2}\theta}{dx^{2}}$

3/ udn + kpo u = (k-1) k dt + * (k-1) a

= (K-1) a + (K-1) x [po dn + 4 n d (u dn)]

$$R \frac{\partial f}{\partial x} = \frac{(k-1) p_0}{p_0 n_0} \frac{\partial n}{\partial x}$$

$$\frac{4}{3} n u - \frac{(k-1) x}{2} p_0$$

$$\frac{4}{3}\mu \mathcal{U} - \frac{(k-1)\kappa}{R\rho_0 u_0} h_0$$

$$\frac{4}{R\rho_0 u_0} du = dx$$

$$\int \frac{4}{3} \mu \, dt - \frac{(k-1)\kappa}{\kappa_0 \theta_0} \, d\mu = k \, \mu_0 \, \alpha - \delta$$

=
$$\frac{4}{3}$$
/m + $\frac{4}{3}$ /md - $\frac{(k-1)\kappa}{\mu_0 \theta_0}$

$$\frac{\delta_{p}^{2}}{\delta t^{3}} = \mathcal{R} \theta_{0} \mathcal{R} \frac{\delta_{p}^{2}}{\delta t} \frac{\delta_{p}^{2}}{\delta x^{2}} + \kappa (k-1) \frac{\delta^{3} \theta}{\delta x^{3}}$$

$$\frac{\partial^{3} e}{\partial t^{3}} = \mathcal{R} \theta_{0} k \frac{\partial^{3} e}{\partial t^{3} x^{2}} + k \frac{(k-1)^{2} \theta_{0}}{e^{0}} \frac{\partial^{3} e}{\partial x^{3}}$$

$$\rho = \alpha x^{2}(\alpha x - \beta t)$$

$$+ \beta^{3} = R\theta_{0}k \alpha^{2}\beta - \frac{\kappa(k-1)^{2}\theta_{0}}{\rho_{0}} \alpha^{3}$$

$$a^3 = \Re\theta_0 k a - \frac{\kappa (k-1)^2 \theta_0}{\varrho_0}$$

$$Q = \sqrt{Q_0^2 - \frac{k(k-1)^2 \theta_0}{\rho_0 q_0^4}}$$

$$= Q_0 \left[-\frac{1}{2} \frac{k(k-1)^2 \theta_0}{\rho_0 q_0^3} \right]$$

$$\frac{1}{2} \frac{(0.4)^2}{0.0013 \cdot (33000)^3}$$

$$P_{0} \frac{\partial \theta}{\partial t} - (k-1)\theta_{0} \frac{\partial \phi}{\partial t} = (k-1) \times \frac{\partial \theta}{\partial t}$$

$$P_{0} \frac{\partial^{3}\theta}{\partial t} = (k-1)\theta_{0} \frac{\partial^{3}\phi}{\partial t} + (k-1) \times \frac{\partial^{3}\phi}{\partial x^{3}}$$

$$\int_{\mathbb{R}^{3}}^{3\theta} \frac{\partial^{3}\theta}{\partial x^{3}} = (k-1)\theta_{0} \frac{\partial^{3}\phi}{\partial t} + (k-1) \times \frac{\partial^{3}\phi}{\partial x^{3}}$$

$$\int_{\mathbb{R}^{3}}^{3\theta} \frac{\partial^{3}\phi}{\partial x^{3}} = (k-1)\theta_{0} \frac{\partial^{3}\phi}{\partial x^{3}} = (k-1)\theta_{0} \frac{\partial^{3}\phi}{\partial x^{3}}$$

$$\int_{\mathbb{R}^{3}}^{3\theta} \frac{\partial^{3}\phi}{\partial x^{3}} = (k-1)\theta_{0} \frac{\partial^{3}\phi}{\partial x^{3$$

$$a = \sqrt{KR\theta_0} \text{ jobo } \overline{I} \text{ puykizum}$$

$$\# \left[a^2 - R\theta R \right] = -\kappa (k-j)\theta_0$$

$$\overline{R_0} \sqrt{KR\theta_0}$$

$$a = \sqrt{KR\theta_0} - \kappa (k-j)^2\theta_0$$

$$\overline{R_0} = \sqrt{KR\theta_0} - \kappa (k-j)^2\theta_0$$

$$\overline{R_0} = \sqrt{KR\theta_0} - \kappa (k-j)^2\theta_0$$

$$-\frac{3}{3}\left(\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y}\right)^{2} + 2\left(\frac{\partial u}{\partial x}\right)^{2} + 2\left(\frac{\partial v}{\partial y}\right)^{2} + \left(\frac{\partial v}{\partial x} + \frac{\partial u}{\partial y}\right)^{2}$$

$$-u\frac{\partial}{\partial x}\left[-\frac{2}{3}\left(\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y}\right) + 2\left(\frac{\partial u}{\partial x}\right)^{2} - v\frac{\partial}{\partial x}\left[-\frac{2}{3}\left(\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y}\right) + 2\left(\frac{\partial u}{\partial y}\right)^{2}\right]$$

$$-u\frac{\partial}{\partial y}\left[n\left(\frac{\partial v}{\partial x} + \frac{\partial u}{\partial y}\right)\right]$$

$$-v\frac{\partial}{\partial x}\left[n\left(\frac{\partial v}{\partial x} + \frac{\partial u}{\partial y}\right)\right]$$

$$k + \left(\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y}\right) = \frac{2}{3} \left[u \frac{\partial u}{\partial x} p div + v \frac{\partial u}{\partial y} p div - p div\right]^{2}$$

$$-2 \left[u \frac{\partial u}{\partial x} (u \frac{\partial u}{\partial x}) + v \frac{\partial u}{\partial y} (u \frac{\partial v}{\partial y}) \right] - \left[u \frac{\partial u}{\partial x} (u \frac{\partial u}{\partial x}) + v \frac{\partial u}{\partial y} (u \frac{\partial v}{\partial y}) \right] - \left[u \frac{\partial u}{\partial x} (u \frac{\partial u}{\partial x}) + v \frac{\partial u}{\partial x} (u \frac{\partial u}{\partial y}) + v \frac{\partial u}{\partial x} (u \frac{\partial u}{\partial y}) \right]$$

$$= \frac{3}{3} \left[n^{2} \frac{\partial x}{\partial x} \left(\frac{\partial x}{\partial x} + \frac{\partial y}{\partial y} \right) + \delta^{2} \frac{\partial y}{\partial y} \left(\frac{\partial x}{\partial y} + \frac{\partial y}{\partial y} \right) \right] - \left[n^{2} \frac{\partial y}{\partial x} \left(\frac{\partial x}{\partial x} + \frac{\partial y}{\partial y} \right) + \delta^{2} \frac{\partial y}{\partial x} \left(\frac{\partial x}{\partial x} + \frac{\partial y}{\partial y} \right) \right]$$

$$= \frac{3}{3} \left[n^{2} \frac{\partial x}{\partial x} \left(\frac{\partial x}{\partial x} + \frac{\partial y}{\partial y} \right) + \delta^{2} \frac{\partial y}{\partial x} \left(\frac{\partial x}{\partial x} + \frac{\partial y}{\partial y} \right) \right] - \left[n^{2} \frac{\partial y}{\partial x} \left(\frac{\partial x}{\partial x} + \frac{\partial y}{\partial y} \right) + \delta^{2} \frac{\partial y}{\partial x} \left(\frac{\partial x}{\partial x} + \frac{\partial y}{\partial y} \right) \right]$$

In Pryllion wordsand postariog: = Fexta + q $u = \frac{y(y-\delta)}{2\mu} \frac{d\mu}{dx} + \psi$ dem =0 等一个部 1 2 + k 1 24 = (k-1) m (24) 2 + K (k-1) 200 $\frac{\partial y}{\partial y} = \frac{\mu}{3} \frac{\partial \mu}{\partial x \partial y}$ h= 44-5) -c + 4 | 3y = 2y-5 1 3y 3y = 4nV + 3y $\frac{\partial u}{\partial x} = \frac{y(y-\delta)}{8\mu} \frac{c^2}{\sqrt{(x+\alpha)^3}} + \frac{\partial y}{\partial x}$ $\frac{\partial u}{\partial x} = -\frac{(2y-\delta)}{8\mu} \frac{c^2}{\sqrt{(x+\alpha)^3}} + \frac{\partial y}{\partial x}$ $\frac{c}{2 \sqrt{2x+4}} + \frac{\partial p}{\partial x} = \sqrt{\frac{c}{2y+1}} + \sqrt{\frac{\partial \psi}{\partial y^2}} + \sqrt{\frac{\partial \psi}{\partial y}} \sqrt{\frac{\partial \psi}{\partial x}} = \sqrt{\frac{c}{3}} \left[-\frac{(2y-5)c^2}{9u\sqrt{(cx+4)^3}} + \frac{\partial \psi}{\partial x \partial y} \right]$ $\frac{c}{2y} = \sqrt{\frac{c}{3}} \left[-\frac{(2y-5)c^2}{9u\sqrt{(cx+4)^3}} + \frac{\partial \psi}{\partial x \partial y} \right]$ 1 (k-1) δθ = y(y-δ) -e -e + kV yy δ) e² 2 V 2 V 13 $-(k-1)n \frac{(2y-\delta)^2}{46\mu^2} \frac{c^2}{(cx+e)}$ $K \frac{\partial \theta}{\partial y^{2}} = \frac{-2y(y-\delta) - (2y-\delta)^{2}}{16\mu^{4}} \frac{c^{2}}{(a-cx)} = -\delta^{2} + 4y\delta - 4y^{2} + 2y\delta - 2y^{2}$ $= -\left(\frac{\delta^{2} - 6y\delta + 6y^{2}}{16\mu}\right) \frac{c^{2}}{a-cx}$ $= \frac{16\mu^{4}}{16\mu^{4}} \frac{c^{2}}{a-cx}$ N_{-1} , $\gamma = \frac{5}{2}$ $\delta^{2} = 3\delta^{2} + \frac{5}{7} = -\frac{5}{2}$ $\gamma^{2} = \gamma^{5} + \frac{5}{7} = 0$ $y = \int_{-2}^{6} \frac{1}{2} \sqrt{\frac{g^2 - g^2}{1 - g^2}} = \int_{-2}^{6} \frac{1}{2} \frac{g}{\sqrt{g^2}}$

$$k \frac{dk}{dy} = -\frac{(S^{2}y - 3Sy + 2y^{3})}{16y^{2}} \frac{c^{2}}{a - cx} + \frac{1}{4y^{2}}$$

$$k \frac{d}{dy} = -\frac{(S^{2}y - 2Sy^{3} + \frac{y^{4}}{4})}{32y^{2}} \frac{c^{2}}{a - cx} + \frac{1}{4y^{2}}$$

$$f = \theta_{0} \frac{d}{dy} \frac{dy}{dy} \frac{d}{dy} \frac{d}{dy} \frac{d}{dy} \frac{d}{dy} \frac{d}{dy} \frac{dy}{dy} \frac{$$

$$\frac{1}{2} \frac{3}{8} \left(\frac{30}{92} \right) = \frac{1}{18} \frac{1}{8/4} \frac{-6-6i}{16(a-cx)} = \frac{c^2}{16k_{1}} \frac{3^2-2a^2}{a-cx}$$

$$\frac{2}{8} \left(1 \right) = \frac{c^2}{16k_{1}} \frac{5^2a-2a^2}{a-cx}$$

$$\frac{30}{2} = \frac{c^2}{16k_{1}} \frac{3^2a-2a^2}{a-cx} + \frac{1}{4} \frac{3^2a-2a^2}{a-cx}$$

$$\frac{30}{2} = \frac{c^2}{32k_{1}} \frac{3^2a^2-2a^2}{a-cx} + \frac{1}{4} \frac{3^2a-2a^2}{a-cx}$$

$$\frac{3^2a-2a^2}{a-cx} + \frac{3^2a^2-2a^2}{a-cx} + \frac{3^2a^2-2a^2}{a-cx}$$

$$\frac{3^2a-2a^2}{a-cx} + \frac{3^2a-2a^2}{a-cx} + \frac{3^2a-2a^2}{a-cx} + \frac{3^2a-2a^2}{a-cx}$$

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$$\frac{3^2a-2a^2}{a-cx} + \frac{3^2a-2a^2}{a-cx} + \frac{3^2a-2a^2}{a-cx}$$

Wylny prypadka gdy shormia of tem is terming to the mate. $\theta = \theta_o + \varphi$ $p = R p (\theta_0 + \varphi)$ $\frac{\partial}{\partial u} \left(\frac{h u}{\theta_0 + \varphi} \right) + \frac{\partial}{\partial y} \left(\frac{h v}{\theta_0 + \varphi} \right) = 0 \qquad \qquad \mu u \cdot \left(1 - \frac{\varphi}{4} \right)$ 2 (4 m) + 2 (4 m) + 1 [3(4 m) + 3(4 m)] -0 Me is out wariyanin jit 3x [pu. (1- 4)] put tylko myt 1). \frac{1}{3x} (\pu u) + \frac{1}{3y} (\pu u) + \frac{1}{3y} + \frac{1}{3y} = 0 p 1 32 III. u 2x + v 2y + k + (2x + 2x) = (k-1) \$\P + (k-0) \D'\q A = 0 + 6 Very tem internet of =0 dle poriunchini zate with me udzidy ciepla [wege to just faltyrams proffesione war of its 2 - dense -- = \$ + x Ard ale min = [(to study muriololy 2" =0 by na povindus)!] Noting rote this appeting my hours in it is though mortion in nothern's 2 minsona, so egylyne, mimo se sesamy ming adsolutione.

bytch morpower is the godyly "= 0.

I proporion :

Jink per lay unvalive $\theta = const$ [jink k = 0 $\frac{\partial}{\partial x}(\mu u) + \frac{\partial}{\partial y}(\mu u) = 0 = u \frac{\partial}{\partial x} + v \frac{\partial}{\partial y} + h(\frac{\partial}{\partial x} + \frac{\partial}{\partial y})$ $h(\frac{\partial}{\partial x} + \frac{\partial}{\partial y}) = -u \left[u \left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y}\right) + v \frac{\partial}{\partial y}(\frac{\partial}{\partial x} + \frac{\partial}{\partial y})\right]$ $-u \left[u \left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y}\right) + v \left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y}\right)\right]$

2 drugig strong $h\left(\frac{2n}{\delta x} + \frac{2n}{\delta y}\right) = D$ 2 ste hybo migoritally by:

1 = = (3m+3m) 2 + 2(3m) + 2(3v) + (3v+3m)2

Nojporten dans i opline number projeto od sidnogui on

Todobien too dynamicane

3 (pu) + } (pu) =0

Najge rozvígrami j = k (47) w dangen notsynin (o siskach miernskonigsk) $\theta = \varphi(xyz)$ かり= 4(4)と) I). Huyman inne vorigeanie dla nausyria o rozmiarach n razy vilanych! pototoriejec ingdsie nx, ny, nz. na mijn xyz ramon mesminione K nory I). u porikny n rozy II). ramiary noughts n rasy wijkne postali nx y 2 K, p --- # n rary DI. romany nory pre more of x 42 Mm p niesmen. x (nyrony Ogilmi: whise politarienis: # 2 4 zame 4 aip . - n P.K - K · bp · - p nθ ..θ

なり「wax + v るい ナンラット かな = 「るな (つな ナンリ ナト (ir ス) 162 2 80) + 7 (00) =0 いまけるかまナルをはずかり=(トリカー・メアカ I). $\frac{b}{n} = \frac{m^2}{n} = \alpha \frac{m}{n^2}$ $= \alpha \frac{m^2}{n^2} = \beta \frac{r}{n^2}$ m b $\delta m = \frac{m^2}{n} + \frac{2}{n^2}$ I). Diesmini fra b(m2+1)= m $(m^2+1)(m+\frac{1}{m})\equiv m$ Numative Robert 16 $\frac{m}{n} + \frac{\lambda}{n m} \left(\frac{m^2}{n} + \frac{\lambda}{n} \right)$ m+ (m+ r) = m2

Famildbyla jidrok maji kinet: $\frac{1}{2} + \frac{1}{2} + \frac{1}$ a mi = a mi + p mi Afinnation! I. $\frac{b}{n}$ $m^2 = b = \alpha \frac{m}{n}$ I). $mb = \alpha \frac{m}{n} = \beta \frac{\pi}{n}$ 3 norman's mysky 6 willholden.

3 dowskie 2=1 $\frac{m^2}{m} = \int \frac{r}{m}$ 20th jourtage tytho dm=pr XX=DX $b = \alpha \frac{m}{n} = b \frac{m^2}{n}$ | $f m^2 = h$ $m b = \alpha \frac{\pi}{n}$ | $b = \alpha \frac{m}{n}$ printig est 2 romans: $l_2 d_n = l_n^2$ $\begin{cases} l_2 d_n = l_n^2 \end{cases}$ $\begin{cases} l_2 = l_n^2 \end{cases}$

2 htops 3 donolie fortile $k=d\frac{m}{n}$ $n=m^2$ 5 whether 1). Niermiensejse { K / ; d=1 \theta : 2=1 1 (bryalis do do iloni co the premonompo $k = \frac{1}{n}$ Iti Dormiony n rozy portefonje, a meni a ruminjen suste nicamiania.

Ugho pun store i blonce; mora preplyse nicemien. 2). Nesmieningg c Kp : x=1 Some som in the dest this dest to same this dest to same to sa Netor leggy pur stursfies: july 2 pr dhoring m ray supry less pur he men forton of byther n ray [tylko, ni mi!] sykry, a temp mi vyžna Unrylydungs. rahinosi kp od tung; Wodge jipag. 8: T, $\frac{b}{n}m^2 = b = n \frac{m}{n}$ $r = m^2$ $b = \frac{m^3}{n}$ T). $m = \frac{n^2}{n}$ $\frac{m^4}{n} = \frac{m^4}{n}$ same pur si spitnione Ovotoj vormek: $r=m^2$ $b=\frac{m^3}{n}$ 1). Ovrotogi toki same 2). n=1 $\sum_{n=1}^{\infty} r = m^2 \quad b = m^3$

州县 加二九 b= 1 n2 2 = 1 WI- Hun porishings, comian a rosy ; emigrasse pythois 1 noling asinoun i tung sumyogi in (power Helinholts) 1=1 n=n2 [] jodn stylin wither world. # jis tol analysed mir joy winsch] 2 4 p + 3 2 pp + p2 + 2 pp + 2 pp + 2 pp + 2 pp - 2 2744+412+ 42+ \$294 $\frac{n^{2}A(qq') + 2nqq' + d(nq^{2})}{d(n^{2}qq')} = \frac{4[nq(q+nq')]}{= \frac{1}{2}d[nq^{2} + n^{2}qq']} = \frac{1}{2}d^{2}(n^{2}q^{2})$ 244 + 4244 + 24 + 23412 n3 d(qq')+3r2qq+1d(x2q2) $d(n^3 \varphi \varphi') + \frac{1}{4} d(n^2 \varphi^2) + k \left[k_0 d(n^2 \varphi) + 3 \varphi_n^2 + 3 \varphi \varphi n^2 \right] = 0$ えんななり パタダナンタナトなかが中+3大ですー本の 1 2 2 2 4 2 4 1 4 1 K to 2 6 = a

$$u = \frac{\cancel{2} \times \cancel{1}}{\cancel{2}} \quad | v = 2 + \frac{\cancel{4}}{\cancel{2}}$$

$$= \cancel{2} \times \cancel{2} \quad | v = 2 + \frac{\cancel{4}}{\cancel{2}}$$

$$\frac{\partial u}{\partial x} = \frac{1}{N} \varphi + \varphi' \frac{x^2}{n}$$

$$\frac{\partial u}{\partial x} = \frac{\varphi'}{2} \frac{3x}{2} + \frac{\varphi'}{2} \frac{x^3}{2} + \frac{\varphi''}{2} \frac{x^3}{2}$$

$$\frac{\partial u}{\partial y} = \varphi' \frac{xy}{n}$$

$$\frac{\partial^2 u}{\partial y^2} = \varphi' \frac{x}{n} - \varphi' \frac{xy^2}{n^3} + \varphi'' \frac{xy^2}{n^2}$$

$$\left(\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y}\right) = 2\varphi + \varphi' \cdot h$$

$$\frac{\partial v}{\partial x} = 3\varphi' \cdot \frac{x}{h} + \varphi'' \cdot x = 0$$

$$\frac{dr}{dr} \cdot \frac{x}{2} = \frac{4\pi}{\sqrt{3}} \left(\varphi'' x + 3 \varphi' \cdot \frac{x}{2} \right)$$

$$= -\frac{1}{3} (2\varphi + n\varphi')^{2} + 4\varphi^{2} + 2\varphi'^{2} \frac{x^{5} + y^{4}}{2^{2}}$$

$$+ 4\varphi \varphi' \frac{1}{2} + 4\varphi'^{2} \frac{x^{5} y^{2}}{2^{2}}$$

$$= -\frac{1}{3} (2\varphi + n\varphi')^{2} + 4\varphi^{2} + 4\varphi \varphi' n + 2r^{2} \varphi'^{2}$$

II).
$$\varphi x = \frac{4}{3} (\varphi'' r + 3 \varphi') + k p (2\varphi + n \varphi') = \frac{(k-1)}{3} (k-1) + \frac{4}{3} r \varphi \varphi' + \frac{4}{3} r^2 \varphi'^2 = \frac{4}{3} [\varphi' + n \varphi \varphi' + r^2 \varphi'^2]$$

$$n^{3}\varphi\varphi' + \frac{\pi^{2}\varphi'}{2}(1+3k) + k + n^{2}\varphi = a$$

$$r\varphi = 2$$

$$rd\varphi + \varphi dr = d2$$

$$r\varphi' = \frac{d^{2}}{dr} - \frac{2}{r}$$

$$\frac{2 dx}{dr} + \frac{r^{2}}{2}(3k - \frac{1}{2})$$

$$\frac{2 dx}{dr} + \frac{r^{2}}{2}(3k - \frac{1}{2})$$

$$\frac{2 dx}{dr} + \frac{2^{2}}{r} \frac{3k - 1}{r} + k + \frac{2^{2}}{r} \frac{1+3k}{r} + k + \frac{2^{2}}{r}$$

$$r^{2}\varphi = 2$$

$$\varphi = \frac{\pi}{n^{2}}$$

$$\varphi = \frac{\pi}{n^{2}}$$

$$\varphi' = \frac{1}{n^{2}} \frac{dx}{dx} - \frac{2x}{n^{3}}$$

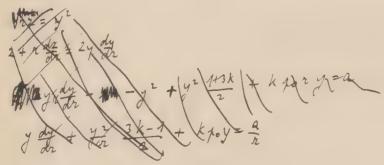
$$2 \frac{dx}{dx} - \frac{2x^{2}}{n^{2}} + \frac{2^{2}}{n^{2}} \frac{1+3k}{2} + k \int_{0}^{\infty} 2 = \alpha$$

$$2 \frac{dx}{dx} + \frac{x^{2}}{n^{2}} \frac{3(k-1)}{2} + k \int_{0}^{\infty} 2 = \alpha$$

$$n\varphi^2 = 2$$

$$\|\varphi\varphi' = \frac{1}{2n} \frac{d2}{dn} - \frac{2}{2n^2}$$

$$\frac{1}{2} \left(r^{2} \frac{ds}{dr} - r^{2} \right) + r^{2} \left(\frac{1+3\kappa}{2} \right) + \kappa \int_{0}^{\infty} r^{2} r^{2} = a$$



$$2\frac{d_{2}}{d_{1}} + \frac{2^{2}}{2} \frac{3k+1}{2} + k_{1} \cdot \frac{2}{n} = \frac{8}{n^{3}}$$

$$\frac{2}{dp} \frac{dp}{dp} + \frac{2}{2} \frac{dp}{2} \frac{3k-1}{2} + \frac{2}{2} \frac{dp}{2} = \frac{2}{2}$$

$$\frac{dp}{dp} = \frac{dp}{dp} = \frac{dp}{dp} - 2$$

$$\frac{dp}{dp} = \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} - 2$$

$$\frac{dp}{dp} = \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} - 2$$

$$\frac{dp}{dp} = \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} - 2$$

$$\frac{dp}{dp} = \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} - 2$$

$$\frac{dp}{dp} = \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} - 2$$

$$\frac{dp}{dp} = \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} - 2$$

$$\frac{dp}{dp} = \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} - 2$$

$$\frac{dp}{dp} = \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} - 2$$

$$\frac{dp}{dp} = \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} - 2$$

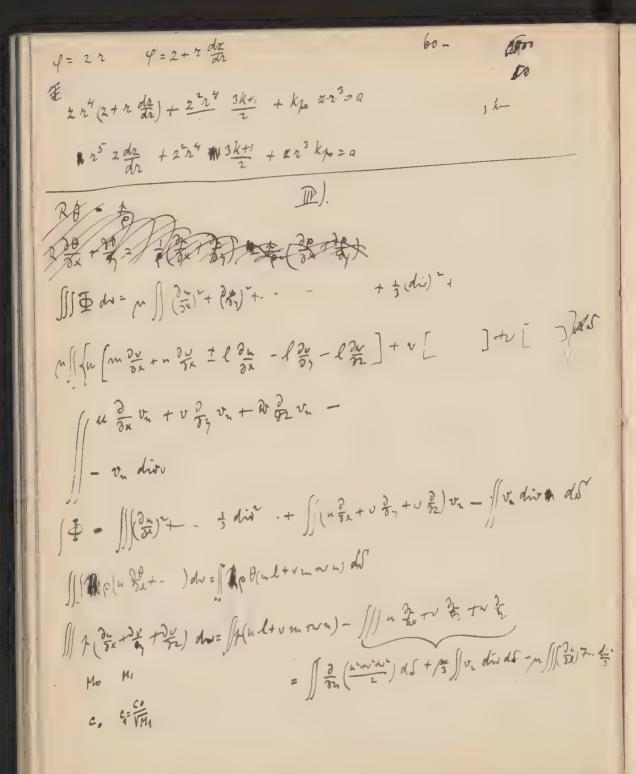
$$\frac{dp}{dp} = \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} + \frac{2}{2} \frac{dp}{dp} - 2$$

$$\frac{dp}{dp} = \frac{2}{2} \frac{dp}{dp} - 2$$

$$\frac{dp}{dp} =$$

$$u \frac{du}{dr} + K_{fo} u \frac{A}{2} \frac{\frac{3k-1}{2}}{A^2} = \frac{a}{A^2} \frac{1-3k-1}{2} = \frac{a}{A^2} \frac{1}{2}$$

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=
$$n \iint \left[\frac{\partial}{\partial n} \left(\frac{u^2 + v^2 + u^2}{2} \right) + \left(u \frac{\partial}{\partial x} + v \frac{\partial}{\partial y} + v \frac{\partial}{\partial z} \right) v_n - \frac{2}{3} v_n div \right] ds' +$$

$$\mathcal{R}\left(1+\frac{1}{K-1}\right)_{1} = \frac{\mathcal{R}^{k}}{K-1} \rho \theta v_{n} dS = 1 = \frac{k}{K-1} \rho v_{n} dS$$

Jirdi uj to zortoruji do rurki predu

$$\frac{kR}{k-1} \left(\rho_2 \theta_2 v_2 \rho_2 - \rho_1 \theta_1 v_1 \rho_1 \right) = -\rho_2 \frac{v_2^3 \rho_2 - \rho_1 g_1 v_1^3}{2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right) - \frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right] = -\rho_2 \frac{v_2^3 \rho_2 - \rho_1 g_1 v_1^3}{2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right) - \frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right] = -\rho_2 \frac{v_2^3 \rho_2 - \rho_1 g_1 v_1^3}{2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right) - \frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right] = -\rho_2 \frac{v_2^3 \rho_2 - \rho_1 g_1 v_1^3}{2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right) - \frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right] = -\rho_2 \frac{v_2^3 \rho_2 - \rho_1 g_1 v_1^3}{2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right) - \frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right] = -\rho_2 \frac{v_2^3 \rho_2 - \rho_1 g_1 v_1^3}{2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right) - \frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right] = -\rho_2 \frac{v_2^3 \rho_2 - \rho_1 g_1 v_1^3}{2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right) - \frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right] = -\rho_2 \frac{v_2^3 \rho_2 - \rho_1 g_1 v_1^3}{2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right) - \frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right] = -\rho_2 \frac{v_2^3 \rho_2 - \rho_1 g_1 v_1^3}{2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right) - \frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right] = -\rho_2 \frac{v_2^3 \rho_2 - \rho_1 g_1 v_1^3}{2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_1^2}{v_1^2} \right) - \frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right] = -\rho_2 \frac{v_2^3 \rho_2 - \rho_1 g_1 v_1^3}{2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_1^2}{v_1^2} \right) - \frac{\partial}{\partial x} \frac{v_2^2}{v_1^2} \right] = -\rho_2 \frac{v_1 v_1^3}{v_1^2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_1^2}{v_1^2} \right) - \frac{\partial}{\partial x} \frac{v_1^2}{v_1^2} \right] = -\rho_2 \frac{v_1 v_1^3}{v_1^2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_1^2}{v_1^2} \right) - \frac{\partial}{\partial x} \frac{v_1^2}{v_1^2} \right] = -\rho_2 \frac{v_1 v_1^3}{v_1^2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_1^2}{v_1^2} \right) - \frac{\partial}{\partial x} \frac{v_1^2}{v_1^2} \right] = -\rho_2 \frac{v_1 v_1^3}{v_1^2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_1^2}{v_1^2} \right) - \frac{\partial}{\partial x} \frac{v_1^2}{v_1^2} \right] = -\rho_2 \frac{v_1 v_1^3}{v_1^2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_1^2}{v_1^2} \right) - \frac{\partial}{\partial x} \frac{v_1^2}{v_1^2} \right] = -\rho_2 \frac{v_1 v_1^3}{v_1^2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_1^2}{v_1^2} \right) - \frac{\partial}{\partial x} \frac{v_1^2}{v_1^2} \right] = -\rho_2 \frac{v_1 v_1^3}{v_1^2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_1^2}{v_1^2} \right) - \frac{\partial}{\partial x} \frac{v_1^2}{v_1^2} \right] = -\rho_2 \frac{v_1 v_1^2}{v_1^2} + \left[v_1 \left(\frac{\partial}{\partial x} \frac{v_1^2}{v_1^2} \right) - \frac{\partial}{\partial x}$$

$$+ \left[v_2 \frac{\partial v_2}{\partial o} q_2 - v_1 \frac{\partial v_1}{\partial o} q_1 \right] - \frac{2}{3} \left[v_2 \frac{\partial v_2}{\partial o} q_2 - v_1 \frac{\partial v_1}{\partial o} q_1 \right]$$

$$\left\{ \begin{array}{c} \left. \right\} = \frac{4}{3} \left[v_2 \frac{\partial v_2}{\partial x} g_2 - v_1 \frac{\partial v_1}{\partial x} g_1 \right] \\ + \left. \right\} \left[\left[v_2 \frac{\partial v_2}{\partial x} g_2 - v_1 \frac{\partial v_1}{\partial x} g_1 \right] \\ + \left. \right\} \left[\left[v_2 \frac{\partial v_2}{\partial x} g_2 - v_1 \frac{\partial v_1}{\partial x} g_1 \right] \\ + \left. \right\} \left[\left[v_2 \frac{\partial v_2}{\partial x} g_2 - v_1 \frac{\partial v_1}{\partial x} g_1 \right] \\ + \left. \right\} \left[\left[v_2 \frac{\partial v_2}{\partial x} g_2 - v_1 \frac{\partial v_1}{\partial x} g_1 \right] \\ + \left. \right] \left[\left[v_2 \frac{\partial v_2}{\partial x} g_2 - v_1 \frac{\partial v_1}{\partial x} g_1 \right] \\ + \left. \right] \left[\left[v_2 \frac{\partial v_2}{\partial x} g_2 - v_1 \frac{\partial v_1}{\partial x} g_1 \right] \\ + \left. \right] \left[\left[v_2 \frac{\partial v_2}{\partial x} g_2 - v_1 \frac{\partial v_1}{\partial x} g_1 \right] \\ + \left. \right] \left[\left[v_2 \frac{\partial v_2}{\partial x} g_2 - v_1 \frac{\partial v_1}{\partial x} g_1 \right] \\ + \left. \right] \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_1 \frac{\partial v_1}{\partial x} g_1 \right] \\ + \left. \right] \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_1 \frac{\partial v_1}{\partial x} g_1 \right] \\ + \left. \right] \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_1 \frac{\partial v_1}{\partial x} g_1 \right] \\ + \left. \right] \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_1 \frac{\partial v_1}{\partial x} g_1 \right] \\ + \left. \right] \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_1 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left. \right] \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_1 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left. \right] \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_1 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left. \right] \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_1 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left. \right] \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_1 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left. \right] \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_1 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left. \right] \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_2 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left. \right] \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_2 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_2 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_2 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_2 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_2 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_2 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_2 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_2 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_2 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_2 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_2 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left[\left[v_2 \frac{\partial v_2}{\partial x} g_1 - v_2 \frac{\partial v_2}{\partial x} g_1 \right] \\ + \left[\left[v_2 \frac{\partial$$

$$\frac{kR}{k-1} \beta_1 p_1 v_1 \left(\theta_2 - \theta_1 \right) = p_1 p_1 v_1 \frac{v_2^2 - v_1^2}{2} + \frac{4m}{3} \left[\frac{1}{p_2} \frac{\partial v_2}{\partial x} - \frac{4}{p_1} \frac{\partial v_1}{\partial x} \right] p_1 q_1 v_1$$

$$\frac{k \mathcal{R}}{\kappa - 1} \left(\theta_2 - \theta_3 \right) = -\frac{v_2^2 - v_3^2}{2} + \frac{4m}{3} \left[\frac{1}{\rho_2} \frac{\partial v_1}{\partial \omega} - \frac{1}{\rho_3} \frac{\partial v_2}{\partial \omega} \right] + \left[\frac{V_1^2 u_1^2 + v_2^2 u_2^2}{2} \frac{ds}{\rho w} \right]$$

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- I de = u'to'n' 2 Addated # = look per for the state of the sta Jego (\$\frac{1}{p_0}\) \tag{\frac{1}{p_0}} = \frac{1}{p_0} \left| \frac{ $\frac{1}{2} + \frac{1}{2} = -\left(\frac{k_0}{k}\right)^{\frac{1}{2}} + \frac{k}{p_0} \cdot \frac{k}{k-1} = -\frac{q_0}{p_0} + \frac{k}{k-1} = \frac{k^2 p_0^2}{k^2 p_0^2}$ (1 = - k fo () = + K fo (fo) K =- L k / 1/2 (ko / - ko / p) $\frac{h_1}{p_0} \left(\frac{1}{p_1} \right)^{\frac{1}{k}} = \frac{1}{k-1} \left(\frac{1}{p_0} \right)^{\frac{1}{k}} = \frac{1}{k} \left(\frac{1}{p_0} \right$ $= \sqrt{k} \sqrt{\frac{P_0}{1-k}} \sqrt{\frac{k+1}{1-k}} \sqrt{\frac{k+1}{1-k}} \sqrt{\frac{k+1}{1-k}}$ = Uk Vpopo (1+k,

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ds \$ \forall n' N' N' Vs vo ds N's. Vvo Rown =0

= \int (ds. Vvo Rown)

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Vp = /3 V div 10 + u V's - p(4 V) 2 =-0(7 2 + Tourly) Just wondering and I'v V'v= Vdir - curli I wanter =0 curl 20 = 1/1 - 3 pe div Vy - 4 u dive) =0 v= curl and ob + I disi do = institute do + I thought div(pr)=0 troppe o strifting my dies The gas to 9 # distri & Rieny

Ony ode detyme the sum equation
$$\frac{1}{4} = \frac{1}{4} = \frac{$$

Vrviniej dla sprzy isotermismi; 10 = Q 12 = - 10 y fo. 2 10 = a 3x [30 (37)] of doly? $f_{po} = (f_{po})^{k}$ $\frac{\partial}{\partial g} = (f_{po})^{k-1} = (f_{po})^{k-1}$ $\frac{\vec{k} \cdot \vec{k} \cdot \vec{k}}{2} = \frac{\vec{k}}{\vec{k} \cdot l} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k} \cdot l} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k} \cdot l} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k} \cdot l} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k} \cdot l} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k} \cdot l} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k} \cdot l} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k} \cdot l} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k} \cdot l} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k} \cdot l} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k} \cdot l} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k} \cdot l} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k} \cdot l} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k} \cdot l} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k} \cdot l} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k} \cdot l} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k} \cdot l} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k} \cdot l} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k}} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \cdot \vec{k} \right] = \frac{\vec{k}}{\vec{k}} \left[\frac{\vec{k}}{\vec{k}} - \frac{\vec{k}}{\vec{k}} \right] = \frac{\vec{k}}{\vec{k}} \left[\frac{\vec{k}}{\vec{k$ and or by dre micho masim na on sympthy 2 oten = (un wy = mich. more joh of (jok ale por The lyder 52 top sange under co & - friele raderin jidno rymierove: ue = unt intermisme: a fill and pu = const u -- Røvenere to win gi netnion volono voini allabotyleni: pry predice nieminny . Syte: (30 + 3x = 0 (3g + 1 (3g) = - 1 (1-16) 1-1 $\left(\frac{\partial u}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{k + o}{k + o} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{e}{e} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{e}{e} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{e}{e} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{e}{e} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{e}{e} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{e}{e} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{e}{e} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{e}{e} \left(\frac{e}{e}\right)^{k-2} \frac{\partial v}{\partial x} + \frac{\partial (eu)}{\partial x} = -\frac{e}{e} \left(\frac{e}{e}\right)^{k-2} \frac$

$$\frac{\partial}{\partial t} = \frac{\partial}{\partial t} + \frac{\partial$$

$$\frac{p_0 + \alpha p'}{p_0 + \alpha p'} = \mathcal{R}[\theta_0 + \alpha \phi']$$

$$p_0 + \alpha p' = \mathcal{R}[\theta_0 + \alpha \phi'] (p_0 + \alpha p')$$

$$p' = \mathcal{R}[p_0, \phi' + p', \theta_0]$$

$$= p_0 \left[\frac{\phi'}{\theta_0} + \frac{p'}{p_0}\right]$$

$$\frac{h' = h \cdot \frac{\theta'}{\theta_0} + \mathcal{R} \cdot \theta_0 \cdot \rho'}{\frac{\partial h'}{\partial x} = \frac{\partial h'}{\partial x} + \frac{\partial h'}{\partial x} + \mathcal{R} \cdot \theta_0 \cdot \frac{\partial h'}{\partial x}}{\frac{\partial h'}{\partial x} + \frac{\partial h'}{\partial x$$

$$\begin{pmatrix}
 \frac{\partial u'}{\partial x} + \frac{\partial u'}{\partial y}
 \end{pmatrix} + u_0 \frac{\partial \rho'}{\partial x} + v_0 \frac{\partial \rho'}{\partial y} = 0$$

$$\frac{\partial 1'}{\partial x} = \frac{u}{3} \frac{\partial^2 u'}{\partial x^2} + -$$

$$\int_{0}^{2} \frac{1}{3} = \frac{1}{3} \frac{3}{3} \frac{3}{3} \frac{1}{3} \frac{1}{3}$$

Utidy redukuji sig to no: stingre drodnie y vilkoni m2 = 8 $b = \frac{m}{n}$ Ny. 8, a, r=1, 1 m = 10 # bn= Klp # 6n = am = a/p I) robige roundory niesmienione n=1 point oj $m = \sqrt{p} = \sqrt{\frac{1}{p_0}}$ $b = \alpha \sqrt{p} = \frac{\alpha}{\sqrt{p_0}}$ $\lim_{n \to \infty} \sqrt{p_0}$ $\lim_{n \to \infty} \sqrt{p_0} = \frac{1}{\sqrt{p_0}}$ grant age six ~a 2 de juli not. mell ås whin niemienion bet March and the state of $m^2 = \rho$ $n = \alpha m = \alpha \sqrt{\rho}$ $n = \frac{\alpha}{\sqrt{\rho}}$ $n = \frac{\alpha}{\sqrt{\rho}}$ nor the from the true in p=mi n=l n=l o n= 1/20 m=VP l= AVa h= ~ 10 prostin mon = a 2=1 nos Ma purmiy digitaris. 2 00 mm 6=1 of = me Des tarina a de de oty unis: Tylko tokie kde podom, ktore noje žovne k to mi = bn mb = M/k = 1 Ket Testurmi smi z tariilm: $\frac{b}{\rho + n} = \frac{b}{n} = \frac{n}{n}$ m² = P

To jut tok some jek z mogh duin - of \$\varphi us 0

jinti k = iown

jinti k = iown cip ior puplyof of any on a company of any on a company of any of a specific of a spec potonie # = a po = a po. I objetom ~ Vpo = 1/2 To harr sig storover de dovodnie norskich mrsk juil kox i Juli pomion erstom pry office that inimions.

Histori for minora pod orminom i p. the a

Storriogic
$$u=u_0+\mu u'$$
 wh.

$$u_0\frac{\partial u_0}{\partial x}+\cdots=-\frac{\partial \mu_0}{\partial x}$$

$$u_0\frac{\partial \mu_0}{\partial x}+\cdots+\frac{\partial \mu_0}{\partial x}+\cdots+\frac{\partial \mu_0}{\partial x}+\cdots=-\frac{\partial \mu'}{\partial x}+\frac{\partial \mu_0}{\partial x}+\frac{\partial \mu_0}{\partial x}+\cdots+\frac{\partial \mu_0}{\partial x$$

 V_{12}^{2} $V_{13}^{2} = V_{13}^{2}$ V_{14}^{2} V_{15}^{2} $V_{$

Ignuss outy Il Venant & Wanted pay eprays

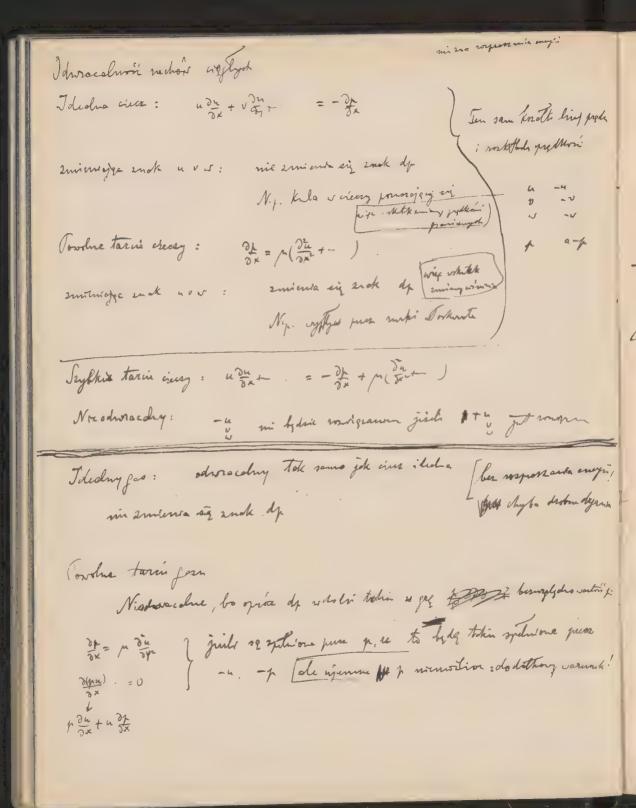
$$\frac{k}{k-1} \stackrel{?}{\nearrow} \theta + \frac{k}{k} \stackrel{?}{\nearrow} \theta = \frac{k}{k-1} \stackrel{?}{\nearrow} \theta_0$$

$$(2+k-1)\theta = 2\theta_0$$

$$0 = \frac{2\theta_0}{k+1}$$

$$\theta - \theta_0 = \frac{k}{k+1}$$

$$M_{f}$$
, $\theta_{o} = 300$ $\theta_{o} - \theta = \frac{0.4}{2.4} .300 = 50^{\circ}$ $+ 27^{\circ}$ $- 23^{\circ}$



Sythis tarlie organismi itaki nicolorocale S = kchy + R hyv + and Bly = ((2y0+(k-1)3v) = co by to + unit = co by to + unit. (P,+ P) (3x+ Jun) + (u, tu) 20 100 +. Do don enie resorpran ulemontive a goras oprice de bados moth 12p Pi 3x + Po 341 + 4, 3p2 + 42 3x + 3 1 2 / 3 x (3x+ -) + / 1 Ping 1 (3x+)=0 (1,+12) di.+(2) =0 **=**0

jughtion oblissere de Kule of gasie isternisane: a distotytana (The = 1 3 3x die + p. Du kp dir + u 3t + v 3t + w 3t 200 Syonize & jobs bordro duie, jodnospy Fr : Le, otnyra nig div =0 wise maky tokin jek u ceresy pan. P+ p div = A () = - 1 () 3 = -) =一声(第一)+春(~32--) ナ=かサライナオー・ (Ptho+\$1'+) (20+\$ div+) + 10 Pth (10+\$ 11) (20 +\$ 30) +-=0 P=Pat pr $\frac{f}{\rho} = \mathcal{R}$ $\frac{f}{\rho} = \mathcal{R}$ $\frac{f}{\rho} = \mathcal{R}$ $\frac{f}{\rho} + \frac{1}{\beta} f' = \mathcal{R}$ $\frac{f}{\rho} + \frac{1}{\beta} \rho'$

$$k \ div' + u_0 \frac{3u}{3x} + v_0 \frac{3v}{3p} + v_0 \frac{3v}{3p} = 0$$

$$\frac{2h'}{3x} = \frac{h}{3} \frac{3}{3} \frac{dv'}{x} + \mu \Delta^{2}v'$$

$$\frac{3h'}{3y} = \frac{h}{3} \frac{3}{3} \frac{dv'}{x} + \mu \Delta^{2}v'$$

$$\frac{h}{3y} = \frac{h}{3} \frac{3}{3} \frac{dv'}{x} + \mu \Delta^{2}v'$$

$$\frac{h}{3x} = \frac{h}{3} \frac{3}{3} \frac{dv'}{x} + \frac{h}{4} \frac{h}{4} \frac{dv'}{x} + \frac{h}{4} \frac{h}{4} \frac{dv'}{x} + \frac{h}{4} \frac{h}{4} \frac{dv'}{x} + \frac{h}{4} \frac{h}{4$$

$$= -\frac{17}{8} \mu c^{2} \left(1 - \frac{a^{2}}{\lambda^{2}}\right) \frac{x^{2}}{\lambda^{6}} + \frac{9}{9} \mu c^{2} \left(1 - \frac{a^{2}}{\lambda^{2}}\right) \frac{x^{2}}{\lambda^{6}} - \frac{3}{2} \mu c^{2} a \frac{1}{\lambda^{3}} \left(1 - \frac{3}{4} \frac{a}{\lambda^{2}} - \frac{1}{4} \frac{a^{3}}{\lambda^{3}}\right) + \frac{9}{2} \mu c^{2} a \frac{x^{2}}{\lambda^{5}} \left(1 - \frac{3}{4} \frac{a}{\lambda^{2}} - \frac{1}{4} \frac{a^{3}}{\lambda^{3}}\right)$$

= 0

$$kdis' = -\frac{3}{2} \mu a c' \frac{1}{n} \left(\frac{1}{n} \frac{2a}{n} - \frac{1}{n} \frac{a^{2}}{n^{2}} \right) + \frac{1}{2} \mu c' a \frac{x^{2}}{n^{2}} \left(\frac{1}{n} \frac{a}{n} - \frac{1}{n} \frac{a^{3}}{n^{2}} \right)$$

$$-\frac{18}{9} \mu c' a \frac{x^{2}}{n^{2}} \left(\frac{1}{10} \frac{a}{n} - \frac{a^{3}}{n^{3}} \right)$$

$$+ \frac{4}{2} \mu c' a \frac{x^{2}}{n^{2}} \left(\frac{1}{10} \frac{a}{n} - \frac{a^{3}}{n^{3}} \right)$$

$$+ \frac{4}{2} \mu c' a \frac{x^{2}}{n^{2}} \left(\frac{1}{10} - \frac{x^{2}}{n} + \frac{1}{4} \frac{a^{3}}{n^{3}} \right)$$

$$+ \frac{4}{2} \mu c' a \frac{x^{2}}{n^{2}} \left(\frac{1}{10} - \frac{x^{2}}{n^{2}} + \frac{1}{4} \frac{a^{3}}{n^{3}} \right)$$

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$$+ \frac{4}{2} \mu c' a \frac{x^{2}}{n^{2}} \left(\frac{1}{10} - \frac{x^{2}}{n^{2}} + \frac{1}{4} \frac{a^{3}}{n^{3}} \right)$$

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$$+ \frac{4}{2} \mu c' a \frac{x^{2}}{n^{2}} \left(\frac{1}{10} - \frac{x^{2}}{n^{2}} + \frac{1}{4} \frac{a^{3}}{n^{3}} \right)$$

$$+ \frac{4}{2} \mu c' a \frac{x^{2}}{n^{2}} \left(\frac{1}{10} - \frac{x^{2}}{n^{2}} + \frac{1}{4} \frac{a^{3}}{n^{3}} \right)$$

$$+ \frac{4}{2} \mu c' a \frac{x^{2}}{n^{2}} \left(\frac{1}{10} - \frac{x^{2}}{n^{2}} + \frac{1}{4} \frac{a^{3}}{n^{3}} \right)$$

$$+ \frac{4}{2} \mu c' a \frac{x^{2}}{n^{2}} \left(\frac{1}{10} - \frac{x^{2}}{n^{2}} + \frac{1}{4} \frac{a^{3}}{n^{3}} \right)$$

$$+ \frac{4}{2} \mu c' a \frac{x^{2}}{n^{2}} \left(\frac{1}{10} - \frac{x^{2}}{n^{2}} + \frac{1}{4} \frac{a^{3}}{n^{3}} \right)$$

$$+ \frac{4}{2} \mu c' a \frac{x^{2}}{n^{2}} \left(\frac{1}{10} - \frac{x^{2}}{n^{2}} + \frac{1}{4} \frac{a^{3}}{n^{3}} \right)$$

$$+ \frac{4}{2} \mu c' a \frac{x^{2}}{n^{2}} \left(\frac{1}{10} - \frac{x^{2}}{n^{2}} + \frac{1}{10} \frac{a^{3}}{n^{2}} \right)$$

$$+ \frac{4}{2} \mu c' a \frac{x^{2}}{n^{2}} \left(\frac{1}{10} - \frac{x^{2}}{n^{2}} + \frac{1}{10} \frac{a^{3}}{n^{2}} \right)$$

$$+ \frac{4}{2} \mu c' a \frac{x^{2}}{n^{2}} \left(\frac{1}{10} - \frac{x^{2}}{n^{2}} + \frac{1}{10} \frac{a^{3}}{n^{2}} \right)$$

$$+ \frac{4}{2} \mu c' a \frac{x^{2}}{n^{2}} \left(\frac{1}{10} - \frac{x^{2}}{n^{2}} + \frac{1}{10} \frac{a^{3}}{n^{2}} \right)$$

$$+ \frac{1}{2} \mu c' a \frac{x^{2}}{n^{2}} \left($$

$$\frac{1}{2}\left(\frac{x^{m}}{x^{m}}\right) = m\frac{x^{m-1}}{x^{n}} - n\frac{x^{m+1}}{x^{m+2}}$$

$$\frac{1}{2}\left(\frac{x^{m}}{x^{m}}\right) = m\frac{x^{m-1}}{x^{n}} - n\frac{x^{m+1}}{x^{m+2}}$$

$$\frac{1}{2}\left(\frac{x^{m}}{x^{m}}\right) = m\frac{x^{m-1}}{x^{n}} - n\frac{x^{m+1}}{x^{m+2}}$$

$$\frac{1}{2}\left(\frac{x^{m}}{x^{m}}\right) = n\frac{x^{m}}{x^{m+2}} - \frac{x^{m}}{x^{m+2}}$$

$$\frac{1}{2}\left(\frac{x^{m}}{x^{m}}\right) = n\frac{x^{m}}{x^{m+2}} + n\left(n+2\right)\frac{x^{m}}{x^{m+2}} + n\left(n+2\right)\frac{x^{m}}{x^{m+2}}$$

$$\frac{1}{2}\left(\frac{x^{m}}{x^{m}}\right) = n\frac{x^{m}}{x^{m+2}} + n\left(n+2\right)\frac{x^{m}}{x^{m+2}} + n\left(n+2\right)\frac{x^{m}}{x^{m+2}}$$

$$\frac{1}{2}\left(\frac{x^{m}}{x^{m}}\right) = m\frac{x^{m-1}}{x^{m}} + n\left(n+2\right)\frac{x^{m}}{x^{m+2}} + n\left(n+2\right)\frac{x^{m}}{x^{m+2}} + n\left(n+2\right)$$

$$\frac{1}{2}\left(\frac{x^{m}}{x^{m}}\right) = m\frac{x^{m-1}}{x^{m+2}} + n\left(n+2\right)\frac{x^{m}}{x^{m+2}} + n\left(n+2\right) + n\left(n+2\right)$$

$$\frac{1}{2}\left(\frac{x^{m}}{x^{m}}\right) = n\frac{x^{m}}{x^{m+2}} + n\left(n+2\right)\frac{x^{m}}{x^{m+2}} + n\left(n+2\right)$$

$$\frac{1}{2}\left(\frac{x^{m}}{x^{m}}\right) = n\frac{x^{m}}{x^{m+2}} + n\left(n+2\right)\frac{x^{m}}{x^{m+2}} + n\left(n+2\right)\frac{x^{m}}{x^{m+2}} + n\left(n+2\right)\frac{x^{m}}{x^{m+2}} + n\left(n+2\right)$$

$$\frac{1}{2}\left(\frac{x^{m}}{x^{m}}\right) = n\frac{x^{m}}{x^{m+2}} + n\left(n+2\right)\frac{x^{m}}{x^{m+2}} + n\left(n+2\right)\frac{x^{m}}{x^{m}} + n\left(n+2\right)\frac{x^{m}}{x^{$$

$$\Delta^{2} \left(\frac{x^{2}}{n^{2}}\right) = \frac{2}{2n} + \left(n^{2} - 5n\right) \frac{x^{2}}{n^{2}}$$

$$n = 3 : \Delta^{2} \left(\frac{x^{2}}{n^{3}}\right) = \frac{2}{23} - 6 \frac{x^{2}}{n^{5}} = 2\left(\frac{1}{2^{3}} - \frac{3x^{2}}{n^{5}}\right)$$

$$n = 4 \quad \Delta^{2} \left(\frac{x^{2}}{n^{3}}\right) = \frac{2}{n^{4}} - 4 \frac{x^{2}}{n^{5}} = 2\left(\frac{1}{2^{4}} - \frac{2x^{2}}{n^{5}}\right)$$

$$n = 5 \quad \Delta^{2} \left(\frac{x^{2}}{n^{5}}\right) = \frac{2}{n^{5}}$$

$$n = 6 \quad \Delta^{2} \left(\frac{x^{2}}{n^{5}}\right) = \frac{2}{n^{5}}$$

$$\frac{x^{2}}{n^{2}} = \frac{1}{3} \frac{1}{n^{3}} - \frac{1}{6} \Delta^{2} \left(\frac{x^{2}}{n^{3}}\right) = \frac{2}{n^{8}} + \frac{x^{2}}{n^{4}}$$

$$\frac{x^{2}}{n^{2}} = \frac{1}{3} \frac{1}{n^{3}} - \frac{1}{6} \Delta^{2} \left(\frac{x^{2}}{n^{3}}\right) = \frac{2}{n^{8}} + \frac{x^{2}}{n^{4}}$$

$$\frac{x^{2}}{n^{2}} = \frac{1}{3} \frac{1}{n^{3}} - \frac{1}{6} \Delta^{2} \left(\frac{x^{2}}{n^{3}}\right) = \frac{2}{n^{8}} + \frac{x^{2}}{n^{4}}$$

$$\frac{x^{2}}{n^{2}} = \frac{1}{3} \frac{1}{n^{3}} - \frac{1}{6} \Delta^{2} \left(\frac{x^{2}}{n^{3}}\right) = \frac{2}{n^{8}} + \frac{x^{2}}{n^{4}}$$

$$\frac{x^{2}}{n^{2}} = \frac{1}{3} \frac{1}{n^{3}} - \frac{1}{6} \Delta^{2} \left(\frac{x^{2}}{n^{3}}\right) = \frac{2}{n^{8}} + \frac{x^{2}}{n^{4}}$$

$$\frac{x^{2}}{n^{2}} = \frac{1}{3} \frac{1}{n^{3}} - \frac{1}{6} \Delta^{2} \left(\frac{x^{2}}{n^{3}}\right) = \frac{2}{n^{8}} + \frac{x^{2}}{n^{4}}$$

$$\frac{x^{2}}{n^{2}} = \frac{1}{3} \frac{1}{n^{3}} - \frac{1}{6} \Delta^{2} \left(\frac{x^{2}}{n^{3}}\right) = \frac{2}{n^{8}} + \frac{2}{n^{4}}$$

$$\frac{x^{2}}{n^{2}} = \frac{1}{3} \frac{1}{n^{3}} - \frac{1}{6} \Delta^{2} \left(\frac{x^{2}}{n^{3}}\right) = \frac{2}{n^{8}}$$

$$\frac{x^{2}}{a^{5}} = \frac{1}{3} \frac{1}{a^{3}} - \frac{1}{6} \Delta \left(\frac{x^{2}}{a^{3}}\right)$$

$$\frac{x^{2}}{a^{6}} = \frac{1}{2} \frac{1}{a^{4}} - \frac{1}{4} \Delta \left(\frac{x^{2}}{a^{3}}\right)$$

$$\frac{x^{2}}{a^{6}} = -\frac{1}{3} \frac{1}{a^{6}} + \frac{1}{6} \Delta \left(\frac{x^{2}}{a^{3}}\right)$$

$$-\frac{5}{9} a$$

$$\frac{x^{2}}{a^{6}} = -\frac{1}{3} \frac{1}{a^{6}} + \frac{1}{6} \Delta \left(\frac{x^{2}}{a^{3}}\right)$$

$$-\Delta^{2} \left(\frac{1}{6} \frac{x^{2}}{a^{3}} + \frac{5}{16} \frac{a}{a^{4}} - \frac{7}{24} \frac{a^{3}}{a^{3}}\right)$$

$$-\Delta^{2} \left(\frac{1}{6} \frac{x^{2}}{a^{3}} + \frac{5}{16} \frac{a}{a^{4}} - \frac{7}{24} \frac{a^{3}}{a^{3}}\right)$$

$$-\frac{5}{9} a \frac{x^{2}}{a^{4}} - \frac{7}{24} \frac{a^{3}}{a^{5}}$$

$$-\Delta^{2} \left(\frac{1}{6} \frac{x^{2}}{a^{3}} - \frac{7}{4} \frac{a^{3}}{a^{4}}\right) = \frac{9}{24} a \frac{a^{3}}{a^{5}}$$

$$-\frac{5}{9} \frac{a}{a^{4}} + \frac{1}{6} \Delta^{2} \left(\frac{x^{3}}{a^{5}} - \frac{7}{4} \frac{a^{3}}{a^{5}}\right) = \frac{9}{24} a \frac{a^{3}}{a^{5}}$$

$$-\frac{5}{8} + \frac{1}{4} \frac{1}{9} \frac{a}{a^{5}} + \frac{1}{6} \Delta^{2} \left(\frac{x^{3}}{a^{5}} - \frac{1}{9} \frac{a^{3}}{a^{5}} - \frac{1}{4} \frac{a^{3}}{a^{5}}\right) = \frac{9}{24} a \frac{a^{3}}{a^{5}}$$

$$-\frac{5}{8} + \frac{1}{4} \frac{1}{9} \frac{a}{a^{5}} + \frac{1}{6} \Delta^{2} \left(\frac{x^{3}}{a^{5}} - \frac{1}{9} \frac{a^{3}}{a^{5}} - \frac{1}{4} \frac{a^{3}}{a^{5}}\right) = \frac{9}{24} a \frac{a^{3}}{a^{5}}$$

$$-\frac{5}{8} \frac{a^{3}}{a^{5}} + \frac{1}{4} \frac{a^{3}}{a^{5}} +$$

$$\frac{1}{2} \psi = -\mu c^{\frac{1}{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} - \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}}$$

$$= 3\frac{1}{7^3} \left[1 - \frac{3a}{2} - \frac{1}{4} \frac{a^3}{7^3} \right] - \frac{17}{4} \frac{a}{24} + \frac{124}{2} \frac{a(y^4+2^4)}{7^6} - \frac{9x^4}{25} \left[1 - \frac{3a}{2} - \frac{1}{4} \frac{a^3}{23} \right]$$

$$+ \frac{3x^4}{7^3} \left[\frac{7a}{7^3} + \frac{3}{4} \frac{a^3}{7^3} \right] - \frac{9}{2} \frac{x^2}{7^3} \left[\frac{5}{2} \frac{a}{5} + \frac{1}{2} \frac{a^3}{7^3} \right]$$

$$= \frac{3}{7^3} \left[1 - \frac{3a}{2} - \frac{1}{4} \frac{a^3}{2^3} \right] - \frac{17}{4} \frac{a}{24} + \frac{17}{2} \frac{a}{14} \left[1 - \frac{x^4}{2^4} \right] - \frac{9x^4}{7^5} \left[1 - \frac{3a}{7} - \frac{1}{4} \frac{a^2}{7^3} \right]$$

$$+ \frac{3x^4}{7^5} \left[3\frac{a}{7} + \frac{3}{4} \frac{a^3}{7^3} \right] - \frac{9}{2} \frac{x^4}{7^5} \left[\frac{5}{7} \frac{a}{7^4} + \frac{1}{2} \frac{a^3}{7^3} \right]$$

$$= \frac{3}{7^3} \left[1 - \frac{3a}{7^2} - \frac{1}{4} \frac{a^3}{7^3} \right] - \frac{9}{2} \frac{x^4}{7^5} \left[\frac{5}{7} \frac{a}{7^4} + \frac{1}{2} \frac{a^3}{7^3} \right]$$

$$= \frac{3}{7^3} \left[1 - \frac{3a}{7^2} - \frac{1}{4} \frac{a^3}{7^3} \right] + \frac{x^4}{7^5} \left[\frac{a}{7^5} \left(-\frac{17}{7^5} + \frac{17}{7^5} + 9 - \frac{17}{7^5} \right) + \frac{a^3}{7^5} \left[\frac{9}{7^5} + \frac{17}{7^5} - \frac{127}{7^5} \right] \right]$$

$$= \frac{3}{7^3} \left[1 - \frac{3a}{7^2} - \frac{1}{4} \frac{a^3}{7^3} \right] + \frac{x^4}{7^5} \left[\frac{a}{7^5} \left(-\frac{17}{7^5} + \frac{17}{7^5} + 9 - \frac{17}{7^5} \right) \right]$$

$$= \frac{3}{7^3} \left[1 - \frac{3a}{7^5} - \frac{1}{7^5} \frac{a^3}{7^5} \right] + \frac{x^4}{7^5} \left[\frac{a}{7^5} \left(-\frac{17}{7^5} + \frac{17}{7^5} + 9 - \frac{17}{7^5} \right) \right]$$

$$= \frac{3}{7^3} \left[1 - \frac{3a}{7^5} - \frac{1}{7^5} \frac{a^3}{7^5} \right]$$

$$= \frac{3}{7^3} \left[1 - \frac{3a}{7^5} - \frac{1}{7^5} \frac{a^3}{7^5} \right]$$

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$$= \frac{3}{7^5} \left[1 - \frac{3a}{7^5} - \frac{1}{7^5} \frac{a^3}{7^5} \right]$$

$$= \frac{3}{7^5} \left[1 - \frac{3a}{7^5}$$

Of the somigrani: $U = \frac{1}{n} \mathcal{L} \left\{ \frac{n^2}{2(2n^4)} \frac{df_n}{dx} + \frac{n n^2}{(n+1)(2n+3)} \frac{d}{dx} \left(\frac{f_{n_1}}{n^{2n+1}} \right) \right\} + \mathcal{L} \frac{df_n}{dx}$ $V = \frac{d}{dy} \frac{d}{dy} \frac{d}{dy} \frac{d}{dy}$ $W = \frac{d}{dy} \frac{d$

p= 2 m Jm $\frac{2\lambda}{2M} = \frac{3x^3}{3x^3}$ $\int_{0}^{\infty} = 1$ x4+40+20 = 0 J, = ws Si= = = (362-1) Jz = 2 (5cm3-3cm) \$ 3 po=1 / p=1 = 1 h= × 1 /2= ×3 p= 1/2 (3 x2 - x2) p-3 = 1/2 x2 -1) $x + y + i = 1 = \frac{1}{2(2n+3)} + \frac{1}{2} \frac{1}{2n+3} = 0$ $\frac{3}{3x} = \frac{3}{2x} \left(\frac{3x}{2x} + \frac{3x}{2x} \right) + \frac{3x}{2x} - \frac{3x^3}{2x^2} = \frac{3x}{2^5} \left[\frac{3}{2} - \frac{5}{2} \frac{x^2}{2^2} \right]$ $=\frac{9\times}{22^5}\left[1-\frac{5}{3}\frac{1}{2^2}\right]$ $\frac{\partial_{1-3}}{\partial y} = -\frac{3y}{2h^{5}} \left(\frac{3x^{2}}{h^{2}} - 1 \right) - \frac{3yh}{h^{7}} = \frac{3y}{h^{5}} \left[\frac{1}{2} - \frac{5}{2} \frac{x^{2}}{h^{2}} \right] = \frac{4}{2} \frac{y}{h^{5}} \left[\frac{1}{3} - \frac{5}{3} \frac{y^{2}}{h^{7}} \right]$ $\frac{\partial}{\partial x} \left(\frac{A^{-3}}{2^{-5}} \right) = \frac{\partial}{\partial x} \left[\frac{\pi^2}{2} \left(\frac{3x^2}{2^2} - 1 \right) \right] = \frac{1}{2} \frac{\partial}{\partial x} \left[\frac{3x^2}{2^2} - 2^2 \right] = 3x - x = 2x$

$$\int_{c}^{2} \frac{3x^{2}}{1.5} \left[\frac{3}{2} - \frac{5}{2} \frac{x^{2}}{n^{2}} \right] + \frac{1}{2.5. \times 1} \frac{1}{n^{3}} 2x = \frac{1}{10} \frac{x}{n^{3}} \left[\frac{5}{2} + \frac{15}{2} \frac{x^{2}}{n^{2}} \right]$$

$$= -\frac{1}{4} \frac{x}{n^{3}} \left[1 - 3 \frac{x^{2}}{n^{2}} \right]$$

$$V = \frac{\lambda^{2}}{2.5} \frac{3y}{2.5} \left[\frac{1}{2} - \frac{5}{2} \frac{2}{12} \right] + \frac{1}{10.} \frac{1}{2} \frac{3y}{2} = \frac{1}{10} \frac{4y}{2} \left[\frac{-5}{2} + \frac{15}{2} \frac{2y}{21} \right]$$

$$= -\frac{1}{4} \frac{4y}{2} \left[\frac{1}{2} - \frac{5}{2} \frac{2y}{21} \right]$$

$$\mathcal{L} = \mathbf{A} + \mathbf{A} +$$

$$A = \frac{1}{a^{3}} + \frac{3}{a^{3}} + \frac{3}{2} \left(\frac{1}{a^{5}}\right) + \frac{1}{a^{5}} = \frac{1}{a}$$

$$= \frac{1}{a^{3}} + \frac{1}{a^{3}} + \frac{3}{2} \left(\frac{1}{a^{5}}\right) + \frac{1}{a^{5}} = \frac{1}{2} \frac{1}{a}$$

$$A = \frac{1}{a^{3}} + \frac{1}{a^{5}} + \frac{1}{2} \left(\frac{1}{a^{5}}\right) = \frac{1}{2} \frac{1}{a}$$

$$A = \frac{1}{a^{3}} + \frac{1}{a^{5}} + \frac{1}{2} \left(\frac{1}{a^{5}}\right) = \frac{1}{2} \frac{1}{a}$$

$$= -\frac{4}{3} \frac{1}{a^{3}}$$

$$= -\frac{4}{3} \frac{1}{a^{3}}$$

$$\frac{3A}{a^{5}} + \frac{5}{4} \frac{1}{a^{3}} = \frac{4}{3} \frac{1}{a^{3}}$$

$$\frac{3A}{a^{5}} = -e\left(\frac{1}{4} - \frac{1}{3}\right) \frac{1}{4} \frac{1}{3} \frac{1}{4} \frac{1}{4} \frac{1}{3} \frac{1}{4} \frac{1}{3} \frac{1}{4} \frac{1}{3} \frac{1}{4} \frac{1}{3} \frac{1}{4} \frac{1}{3} \frac{1}{4} \frac{$$

$$A + B + \frac{1}{2} Ca^{\frac{1}{4}} = \frac{1}{2}a^{\frac{1}{4}}$$

$$B = \frac{1}{4}x^{\frac{1}{4}} - \frac{1}{3}a^{\frac{1}{4}} = \frac{1}{2}a^{\frac{1}{4}}$$

$$U = -\frac{27}{8a} \cdot \left[\frac{1}{36} \left[\frac{x}{2}\right] \left[1 - \frac{3}{2}x^{\frac{1}{4}}\right] + \frac{a^{\frac{1}{4}}}{25} \left[\frac{3}{2} - \frac{5}{2}x^{\frac{1}{4}}\right]\right]$$

$$U = -\frac{27}{8a} \cdot \left[\frac{1}{36} \left[\frac{x}{2}\right] + \frac{a^{\frac{1}{4}}}{25} + \frac{a^{\frac{1}{4}}}{25} \left[\frac{3}{2} - \frac{5}{2}x^{\frac{1}{4}}\right]\right]$$

$$U = -\frac{27}{8a} \cdot \left[\frac{1}{32} \frac{x^{\frac{1}{4}}}{25} + \frac{a^{\frac{1}{4}}}{4} + \frac{a^{\frac{1}{4}}}{25} \left[\frac{3}{2} - \frac{5}{2}x^{\frac{1}{4}}\right]\right]$$

$$U = -\frac{27}{4} \cdot \frac{a^{\frac{1}{4}}}{26} \cdot \left[\frac{3a^{\frac{1}{4}}}{25} + \frac{a^{\frac{1}{4}}}{25} + \frac{a^{\frac{1}{4}}}{25} \left(1 - \frac{5}{2}x^{\frac{1}{4}}\right)\right]$$

$$V = \frac{27}{32} \cdot \frac{a^{\frac{1}{4}}}{25} \cdot \left[\frac{3}{2} + \frac{3}{2}x^{\frac{1}{4}} - \frac{35}{2}x^{\frac{1}{4}}\right]$$

$$V = \frac{27}{32} \cdot \frac{a^{\frac{1}{4}}}{25} \cdot \left[\frac{3}{2} + \frac{3}{2}x^{\frac{1}{4}} - \frac{35}{2}x^{\frac{1}{4}}\right]$$

$$V = \frac{27}{32} \cdot \frac{a^{\frac{1}{4}}}{25} \cdot \left[\frac{3}{2} + \frac{3}{2}x^{\frac{1}{4}} - \frac{35}{2}x^{\frac{1}{4}}\right]$$

$$V = \frac{27}{32} \cdot \frac{a^{\frac{1}{4}}}{25} \cdot \left[\frac{3}{2} + \frac{3}{2}x^{\frac{1}{4}} - \frac{35}{2}x^{\frac{1}{4}}\right]$$

$$V = \frac{27}{32} \cdot \frac{a^{\frac{1}{4}}}{25} \cdot \left[\frac{3}{2} + \frac{3}{2}x^{\frac{1}{4}} - \frac{35}{2}x^{\frac{1}{4}}\right]$$

$$V = \frac{3}{2} \cdot \frac{a^{\frac{1}{4}}}{25} \cdot \frac{a^{\frac{1}{4}}}{25} \cdot \frac{a^{\frac{1}{4}}}{25} + \frac{5a^{\frac{1}{4}}}{25} + \frac{35}{2}x^{\frac{1}{4}}$$

$$V = \frac{3}{2} \cdot \frac{a^{\frac{1}{4}}}{25} \cdot \frac{a^{\frac{1}{4}}}{25} \cdot \frac{a^{\frac{1}{4}}}{25} + \frac{5a^{\frac{1}{4}}}{25} + \frac{35}{2}x^{\frac{1}{4}}$$

$$V = \frac{3}{2} \cdot \frac{a^{\frac{1}{4}}}{25} \cdot \frac{a^{\frac{1}{4}}}{25} \cdot \frac{a^{\frac{1}{4}}}{25} + \frac{5a^{\frac{1}{4}}}{25} + \frac{35}{2}x^{\frac{1}{4}} \cdot \frac{35}{25} \cdot \frac{3}{2}$$

$$V = \frac{3}{2} \cdot \frac{a^{\frac{1}{4}}}{25} \cdot \frac{a^{\frac{1}{4}}}{25} + \frac{3a^{\frac{1}{4}}}{25} \cdot \frac{a^{\frac{1}{4}}}{25} + \frac{35}{2}x^{\frac{1}{4}} \cdot \frac{35}{25} \cdot \frac{3a^{\frac{1}{4}}}{25} + \frac{3a^{\frac{1}{4}}}{25} \cdot \frac{3a^{\frac{1}{4}}}{25} + \frac{35}{2}x^{\frac{1}{4}} \cdot \frac{35}{25} \cdot \frac{3a^{\frac{1}{4}}}{25} + \frac{3a^{\frac{1}{4}}}{25} \cdot \frac{3a^{\frac{1}{4}}}{25} + \frac{3a^{\frac{1}{4}}}{25} \cdot \frac{3a^{\frac{1}{4}}}{25} \cdot \frac{3a^{\frac{1}{4}}}{25} + \frac{3a^{\frac{1}{4}}}{25} \cdot \frac{3a^{$$

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$$\frac{\mu_{1} - \mu_{2}}{\ell} = \frac{a^{4}n}{8n} = \overline{f}$$

$$\frac{1}{4^{4}n} = \frac{8n}{a^{4}n} \overline{f} \ell \qquad \frac{40000.8.000015.1000}{3.16}$$

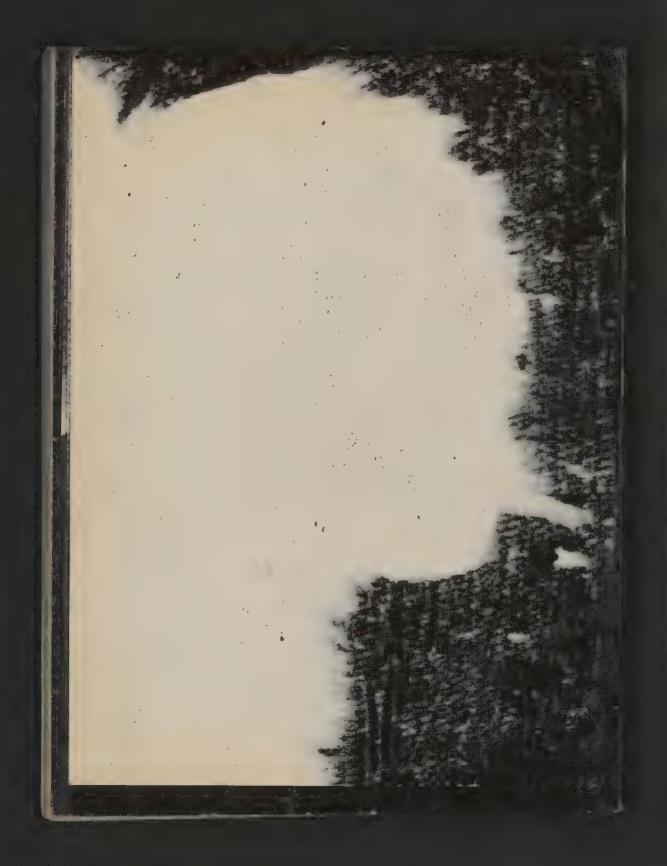
$$-\frac{5}{27}^{2}$$

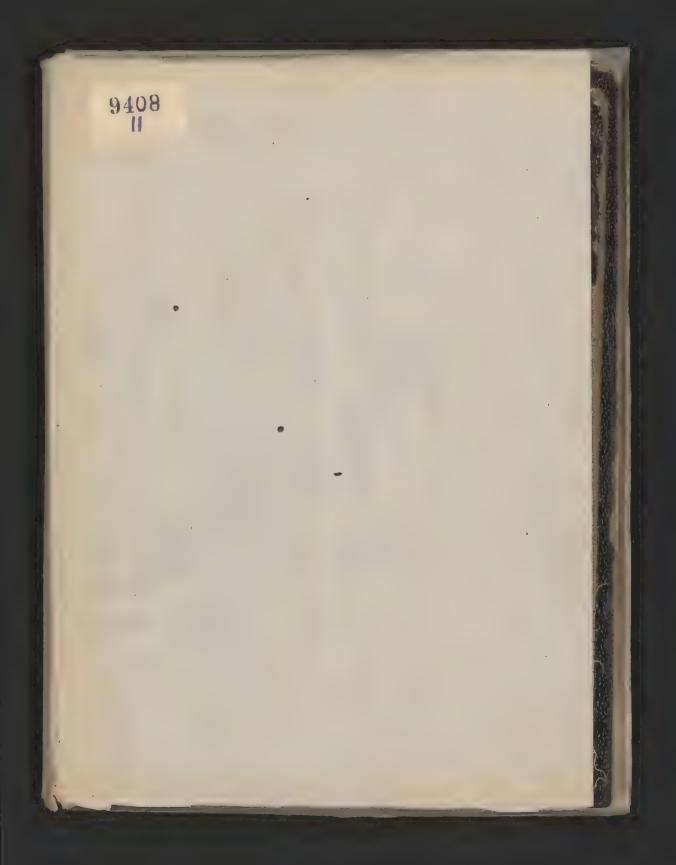
$$-\frac{5}{n7} + \frac{352^{2}}{n9}$$

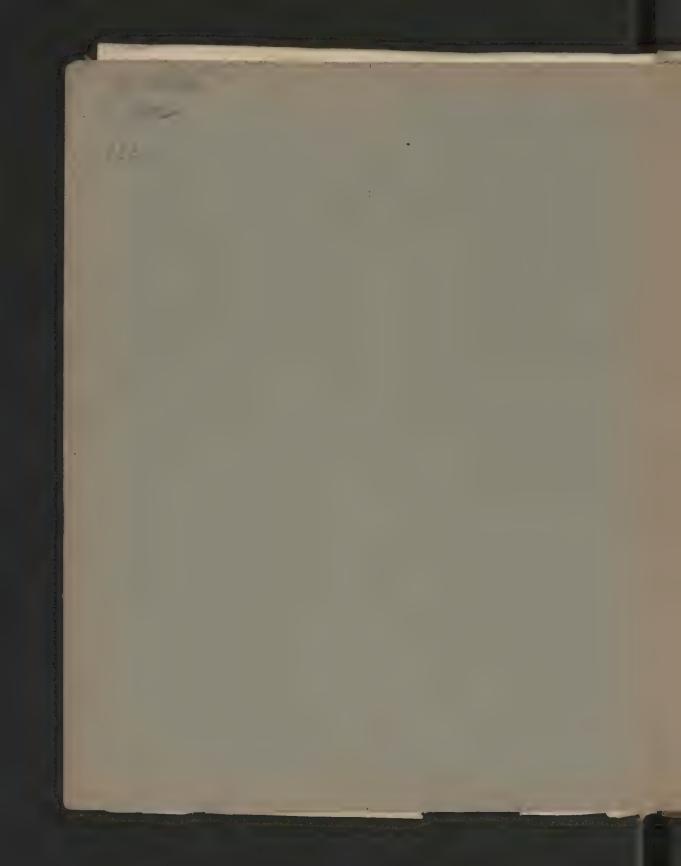
$$-\frac{7}{n9} + \frac{53}{n9}$$

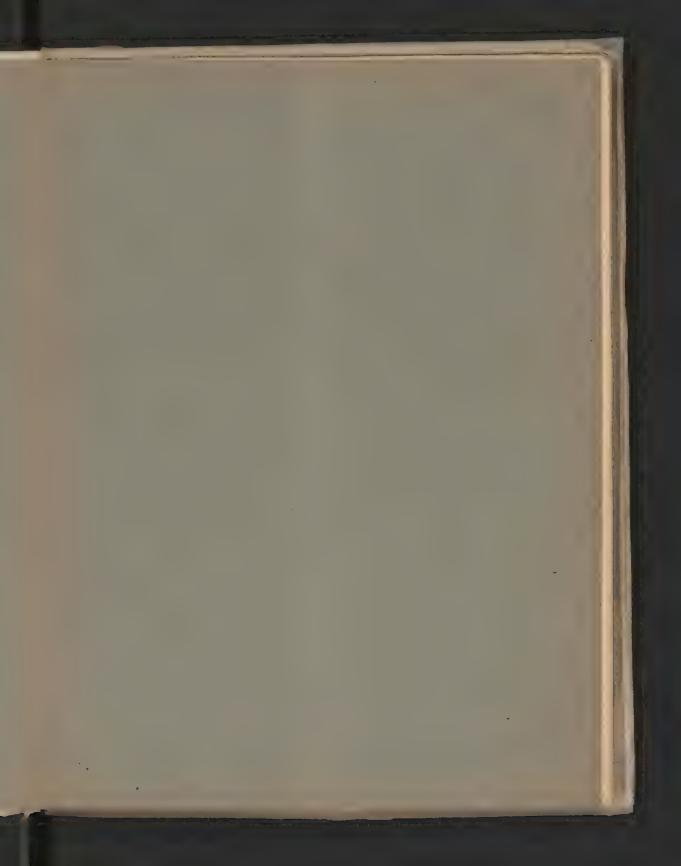
$$-\frac{7}{n9} + \frac{53}{n9}$$

$$\frac{1}{3} \frac{1}{\sqrt{3}} \frac$$

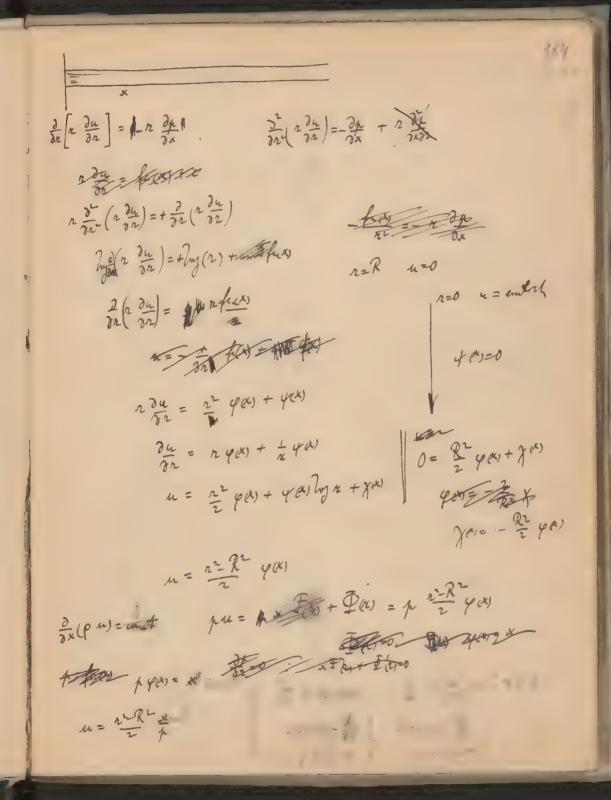








22 - 12 - - 16/th W-1 1-2/-01210 1-1 . .



1.7 477,2 -1.2829 1 = 3 47874 -2.3856 -3.0685 3711 0.96215 1=4 3:0163 1.11 -3.97245 Ann = 1.157 0.40 929 1.28287 8 = A1440 2.5657 0.06333.5 220 2160 2273 1087 +0.31665 hy J= -1.28285 1=2 -22176 150515 -2:5657 -0.31.66 2=1: -27880 417078 - 47040 -51314 1- -6 -2:0342 A = 0'5 +1'5052 1 2 2 -3.0262 X=4 0.6414 37 16 10.00 0.8552 1=3 3.6517 2.3856 49" = 3.2408 9°:03 34 = 81 3= 77572 3.4 7 -2.3856 λ=3 · -2.5857 - 4.9713 12-2-1 51, 1

343

25657 D= 1440, 5 \$200 28486.4 1800 153944 1735. 3 277 1527 1:5394, Az . 1388 48840 5.14239 221825 λ=2: 1.50515 071195 834601 -3:0446 . . .) 02 --1.02 529 -6.1 5776 . 23 λ = ½ 1.61 2.38 56 + 1.50515 -463261 - 3.4119 0 1 1 -- - - 4 -- 4 *

$$\begin{cases} \frac{\partial u}{\partial t} + u \frac{\partial u}{\partial x} + v \frac{\partial u}{\partial y} + u \frac{\partial u}{\partial z} = y_1 \frac{\partial}{\partial x} + \frac{1}{2y} + \frac{1}{2y} \frac{\partial}{\partial x} \left(\frac{\partial u}{\partial x} + \frac{1}{2y} + \frac{1}{2y} \right) - \frac{1}{2x} \\ \frac{\partial}{\partial x} + \frac{1}{2y} \frac{\partial}{\partial x} \left(\frac{\partial u}{\partial x} + \frac{1}{2y} + \frac{1}{2y} \right) - \frac{1}{2x} \\ \frac{\partial}{\partial x} = \frac{1}{2y} \frac{\partial}{\partial x} \frac{\partial}{\partial x} + \frac{1}{2y} \frac{$$

e [It int + game (de cry+ fr sin'y) + q siny (de - of) sint out + w of out = 3 = 4 (3 = + + 2 = - 2 - 2 + 1 3 2 - 2 - 2 + 2 = - 2 + 2 = - 2 + 2 = - 2 = Equation of motion with granded symmetry (independent of 4) $c = -\frac{2}{3} u B^{2} + u \left[2 \left(\frac{2u}{3v} + \left(\frac{3v}{3y} \right) + \left(\frac{3u}{3v} + \frac{3v}{3z} \right)^{2} + \left(\frac{3u}{3z} + \frac{3v}{3x} \right) + \left(\frac{3v}{3x} + \frac{3v}{3y} \right) \right]$ - 九国独州新 cp 20 + 4 20 + 1 20 + 1 20) cp[3+ 9 32 + 17 32] = - 1 [32 + 2 + 32] - 3 m [32 7 2 + 32] $+ \mu \left[2 \left(\frac{30}{31} \right)^{2} \cos^{3} \gamma + 2 \frac{30}{2} \sin^{3} \gamma + \sin^{3} \gamma + \frac{1}{2} \frac{30}{31} \sin^{3} \gamma \right]$ $= (31)^{2} + (31)^{2} + 2 \cos^{3} \gamma + 2 \cos^{3} \gamma + \frac{1}{2} \cos^{3} \gamma + \frac{1}$ + (32 Man + 32) sir + (32 + 32) or +4 32 - 2) sing or] 2 (31) + 2 (2) + 2 (2) - 4 sin 4 (32 + 2) + (31) + (32) + 2 32 32 AMM

$$\frac{1}{12} \left[\frac{30}{30} + 9 \frac{30}{30} + 12 \frac{30}{30} \right] = -1 \left[\frac{30}{30} + \frac{4}{5} + \frac{34}{32} \right] + 4 \left[\frac{2}{3} \left(\frac{3}{30} + \frac{4}{5} + \frac{4}{32} \right)^{2} + 2 \frac{32}{32} \frac{34}{32} \right] + 2 \frac{32}{32} \frac{34}{32} \frac{34}{32}$$

$$\frac{2h}{A} = \frac{1}{h} \log (h^{\frac{1}{2} - 2}) \left[\frac{2h}{2^{\frac{1}{2} - 2}} + i \right] + i$$

$$\frac{2h}{A} = -\frac{1}{h} \log (h^{\frac{1}{2} - 2}) \left[\frac{2h}{2^{\frac{1}{2} - 2}} + i \right] + i$$

$$\frac{2h}{A} = -\frac{1}{h} \log (h^{\frac{1}{2} - 2}) \left[\frac{2h}{2^{\frac{1}{2} - 2}} \right] + i$$

$$\frac{2h}{A} = -\frac{1}{h} \log (h^{\frac{1}{2} - 2}) \left[\frac{2h}{2^{\frac{1}{2} - 2}} \right]$$

$$\frac{2h}{A} = \frac{h}{h} = \frac{1}{h} \frac{h^{\frac{1}{2} - 2}}{h^{\frac{1}{2} - 2}} \left[\frac{2h}{h^{\frac{1}{2} - 2}} \right]$$

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$$\frac{2h}{h} = \frac{h}{h} \frac{h}{h} \frac{h}{h} \frac{h}{h} = \frac{h}{h} \frac{h}{h} \frac{h}{h} \frac{h}{h}$$

$$\frac{2h}{h} = \frac{h}{h} \frac{h}$$

$$\frac{\partial}{\partial z} = b_{1} + b_{2} x^{2} \qquad n^{2} \frac{\partial}{\partial z} = 2 \pi^{2} (b_{2} + b_{3} z)$$

$$\frac{1}{h} \frac{\partial}{\partial z} (1) = 4 \frac{1}{h} (b_{1} + b_{3} z)$$

$$\frac{1}{h} \frac{\partial}{\partial z} (1) = 4 \frac{1}{h} (b_{1} + b_{3} z)$$

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$$\frac{1}{h} \frac{\partial}{\partial z} (1) = 4 \frac{1}{h} (b_{1} + b_{2} z)$$

$$\frac{1}{h} \frac{\partial}{\partial z} (1) = 4 \frac{1}{h} (1) + 4 \frac{1}{h} (1) + 4 \frac{1}{h} (1) + 4 \frac{1}{h} (1) + 4 \frac{1}{h} (1)$$

$$\frac{1}{h} \frac{\partial}{\partial z} (1) = 4 \frac{1}{h} (1) + 4 \frac{1}{h} (1) + 4 \frac{1}{$$

$$\frac{\partial \tilde{u}}{\partial x} + \frac{1}{2} \frac{\partial w}{\partial x} = \frac{\partial k}{\partial z} \\
\frac{\partial z}{\partial z} (\rho w) = 0$$

$$\frac{\partial z}{\partial z} (\rho w) = 0$$

$$\frac{\partial z}{\partial z} = \frac{\partial z}{\partial z} + \frac{\partial z}$$

II:
$$\beta R^{2}h_{1}^{2}h_{2} = a^{2}h_{0} = -\mu_{1}^{2}\beta h_{1}^{2}$$

$$h_{1} = -\frac{a^{2}h_{0}}{\beta h_{1}^{2}}$$

$$h_{2} = \frac{a^{2}h_{0}}{\beta h_{1}^{2}R^{2}}$$

$$h_{3} = \frac{a^{2}h_{0}}{\beta h_{1}^{2}R^{2}}$$

$$I). 2\beta h^{2} b_{11} = \beta a b_{1} - a^{2}b_{1} + 64 \mu k h^{2} b_{0}b_{1}$$

$$k_{11} = k_{1} \left[\frac{a}{2h^{2}} - \frac{a^{2}}{2\rho h^{2}} \right]$$

$$= -\frac{a^{3}}{2h^{2}} \frac{b_{0}a}{\rho h^{2}} \left(1 - \frac{a}{\rho} \right)$$

$$\begin{bmatrix}
1 - 2x + \frac{17}{16}x^{2} \end{bmatrix}^{-1} = 1 + 2x - \frac{17}{16}x^{2} + 4x^{2} \dots \\
-\frac{1}{1-x} = 1 + x^{2} + x^{2} + \dots \\
-1 + 2x + \frac{17}{16}x^{2}$$

$$\begin{cases}
\frac{1}{1-x} = 1 + x^{2} + x^{2} + \dots \\
-1 + 2x + \frac{17}{16}x^{2}
\end{cases} = 1 + 2x + \frac{17}{16}x^{2}$$

$$\begin{cases}
\frac{1}{1-x} = 1 + x^{2} + x^{2} + \dots \\
-1 + 2x + \frac{17}{16}x^{2}
\end{cases} = \frac{1}{16}x^{2}$$

$$\begin{cases}
\frac{1}{16}x^{2} + \frac{1}{16}x^{2} + \frac{1}{16}x^{2}
\end{cases} = \frac{1}{16}x^{2}$$

$$\begin{cases}
\frac{1}{16}x^{2} + \frac{1}{16}x^{2} + \frac{1}{16}x^{2}
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\frac{1}{16}x^{2} + \frac{1}{16}x^{2} + \frac{1}{16}x^{2}
\end{cases} = \frac{1}{16}x^{2}$$

$$\begin{cases}
\frac{1}{16}x^{2} + \frac{1}{16}x^{2} + \frac{1}{16}x^{$$

Otherworms (78)
$$h(v_g - v_f) = nT \left[\frac{v_g - b}{v_f - b} + a \left(\frac{i}{v_g} - \frac{i}{v_f} \right) \right]$$

$$h = \frac{nT}{v - b} - \frac{a}{v^2}$$

$$nT \left[\frac{-v_g}{v_g - b} + \frac{v_f}{v_f - b} + \frac{v_f}{v_f - b} \right] = 2a \left(\frac{i}{v_g} - \frac{i}{v_f} \frac{i}{v_f} \right) = 1 \text{ About. of with }$$

$$+ \frac{1}{v_g} \frac{v_g}{v_f} - b \left(\frac{i}{v_g} - \frac{i}{v_f} \right) - b^2 \left(\frac{i}{v_f} - \frac{i}{v_f} \right)$$

$$= \frac{1}{2}i$$

N= m, m= \$12 + m, m3 \$13 + m, m, \$14 + n, 3-) + m2 m3 /23 + m2 my/24+-+ my making = { Emimk }ik = = Em: Emx Yin = 2 fragging Supply to = 2 nMp Sty 4 E, kint de gelger, n D= nB ce D= 1 Dragg 80. 0 ~ for 10/2 mg, 40, 11 8 oder; a B gd/y 1 mg 2 1 D ce P D r Die 2m. . . P = Enll, pl 1). en humans fort Relsh klime med dere bide Wirty might ford = B dro in Same Arbeit SUB Vem nom den der entstorden tollram vieder sendwindet so wind leteter Mut = 10 wiele geronnen; also intloke mente Verdy or for 1 Helch

dN= A= L(U+L) dudo du -.. dedyde =A = L(U+ La+Li) du dui dv N. = A e de le Le+Li du dui = B e du = Ngm e do $\frac{Pf}{Pg} = \frac{-\lambda U}{2} = \frac{-\lambda U}{2\pi (d-2\pi)^3}$ la R-Ing $2n = \sqrt[3]{\frac{36}{2\pi}} \qquad \qquad h = \frac{mc^2}{3n(\sqrt[3]{v} - \sqrt[3]{\frac{36}{2n}})^3}$ 4 4 n n3 = b $d^{3} = v$ $d = \sqrt{v}$ $d = \sqrt{d^{2} - (\frac{1}{3} \frac{d}{2} \sqrt{3})^{2}}$ $d = \sqrt{d^{2} - (\frac{1}{3} \frac{d}{2} \sqrt{3})^{2}}$ $= d\sqrt{1 - (\frac{1}{3} \frac{d}{2} \sqrt{3})^{2}}$ $= d\sqrt{1 - (\frac{1}{3} \frac{d}{2} \sqrt{3})^{2}}$ $\frac{4}{3}\pi n^3 = \delta_1$ $n = \sqrt[3]{\frac{3}{4\pi}}$ $k = \frac{mc^2}{3\pi(\sqrt[3]{5} - \sqrt[3]{\frac{64}{3}})^3}$ $2d \cdot 4 \cdot 5 \cdot d = \frac{3}{12} = \frac{3}{12} = \frac{3}{12}$ $\int_{1}^{\infty} \frac{me^{2}}{3\pi \sqrt{3}\sqrt{12}-\sqrt{\frac{6}{2}}} = \frac{me^{2}}{\sqrt{3\sqrt{2}\pi v}-\sqrt{18}\ell_{4}} = \frac{me^{2}}{3\pi \sqrt{2}.\sqrt{1}-\sqrt{\frac{6}{2}.\frac{6}{2}}} = \frac{me^{2}}{3\pi \sqrt{2}.\sqrt{1}-\sqrt{\frac{6}{2}.\frac{6}{2}}} = \frac{me^{2}}{\sqrt{3\sqrt{2}\pi v}-\sqrt{18}\ell_{4}} = \frac{me^{2}}{3\pi \sqrt{2}.\sqrt{1}-\sqrt{\frac{6}{2}.\frac{6}{2}}} = \frac{me^{2}}{\sqrt{3\sqrt{2}\pi v}-\sqrt{18}\ell_{4}} = \frac{me^{2}}{\sqrt{2}\sqrt{2}\pi v}-\sqrt{18}\ell_{4}} = \frac{me^{2}}{\sqrt{2}\sqrt{2}\sqrt{2}\sqrt{2}\sqrt{2}} = \frac{me^{2}}{\sqrt{2}\sqrt{2}\sqrt{2}\sqrt{2}\sqrt$

$$\frac{6 b_{1}}{3 \sqrt{2}} = B$$

$$\int_{0}^{1} \frac{n m v}{3 \sqrt{2} \cdot v} \left(1 - \sqrt[3]{\frac{n}{v}}\right)^{3}$$

$$\left[\frac{0}{v}\right]_{0}^{\frac{1}{3}} \left[1 + \frac{v - 0}{v}\right]_{0}^{\frac{1}{3}} = 1 - \frac{v - 0}{3 v}$$

$$\int_{0}^{1} \frac{n m v^{2}}{3 \sqrt{2} \cdot v} \left(\frac{v - 0}{3 v}\right)^{3} = \frac{n m v^{2}}{4 \sqrt{2}} \frac{q v^{2}}{(v - 0)^{3}} = n m v^{2}$$

$$f = \frac{n m e^{2}}{3 \pi \sqrt{2} \cdot v \left(\frac{v-0}{3 + v}\right)^{3}} = \frac{n m e^{2}}{4 \pi \sqrt{2}} \frac{9 v^{2}}{(v-0)^{3}} = n m e^{2} \frac{3}{2} \frac{0}{4 \sqrt{(v-0)^{3}}}$$

$$hv = nmc^2 \cdot \frac{q}{nv_2} \frac{1}{(1-\frac{Q}{v})^3} = \frac{q}{nv_2} \int_{-\infty}^{\infty} \frac{1}{1+3\frac{Q}{v}} .$$

$$\frac{1+\frac{2}{3}x}{1-\frac{x}{3}} = (1+\frac{2}{3}x)(1-\frac{x}{3})^{-1} = (1+\frac{2}{3}x)(1+\frac{x}{3}+\frac{x^2}{9}+\frac{x^3}{4})$$

$$= (1+\frac{2x}{3})(1+\frac{x}{3}+\frac{x^2}{9}+\frac{x^3}{4})$$

$$= (1+\frac{2x}{3})(1+\frac{x}{3}+\frac{x^2}{9}+\frac{x^3}{4})$$

$$= (1+\frac{2x}{3})(1+\frac{x}{3}+\frac{x^2}{9}+\frac{x^3}{4})$$

$$\frac{1}{\sqrt{1 + \frac{\sqrt{1}}{3}}} = \frac{1}{\sqrt{1 + \frac{\sqrt{1$$

$$\frac{V}{mm} = v + \left\| \frac{2n46^3}{3+m} \right\|^2 = 4$$

$$\frac{1}{3} = \frac{2n6^3 m}{3 \cdot V}$$

$$W'' = 3p^2 V$$

Not Joy for Plitypert und noch butterland for fut lings $\frac{d}{6} = \sqrt{\frac{v}{v}}$ p+a= 1 1+ 12 6 Vo = 1 + v-vo = 1+ 1 v-vo $= \frac{2T}{v} \left[1 + \frac{\sqrt{2}}{3} \frac{1}{\sqrt[3]{v} - 1} \right]$ = \frac{rT}{v} \left[1 + \frac{\sqrt{2}}{2} \frac{1}{\sqrt{v-v_0}} \right] = \frac{rT}{v} \left[\frac{\sqrt{w}}{v-v_0} + \frac{v_0}{v_0} \right] $=\frac{nT}{v}\frac{v_0\sqrt{z}}{v_0-v_0}=\frac{nT\sqrt{z}}{v_0-v_0}$ V-Vo. \$ 1 1 2 20 oly a 2 200 = - 1 12 pm at the avo = rTV2 $\alpha = \frac{1}{3} \frac{1}{\sqrt{\alpha n}} = \frac{\sqrt{2}}{3} \frac{(\nu - \nu_0)}{\sqrt{2}}$ $= \sqrt{2} \frac{\sqrt{2}}{\sqrt{2}} = \sqrt{2} \frac{2}{\sqrt{2}} = \sqrt{2} \frac{\sqrt{2}}{\sqrt{2}} = \sqrt{2} \frac{\sqrt{2}}{\sqrt{2}} = \sqrt{2} \frac{\sqrt{2}}$ prayll: = {v-vo} = rT 1/2 9 du = 2/2 $= \frac{v - v_0}{3 v_0 T} = \frac{r \sqrt{2}}{7} \frac{v_0}{a} = \frac{r}{\rho} \frac{\kappa_1}{3 a}$

$$\frac{dy}{dx} = \frac{2a}{v^{2}} \frac{dx}{dx} = \frac{2T}{(v-v_{0})^{2}} \frac{dx}{dx} = \frac{2a}{v^{2}} \frac{av}{(v-v_{0})^{2}} = \frac{2a}{v^{2}} \frac{av}{(v-v_{0})} = a\frac{2vv_{0}^{2} - 2v_{0}^{2} - v^{2}}{v_{0}^{2}(v-v_{0})} = a\frac{2vv_{0}^{2} - 2v_{0}^{2} - v^{2}}{v_{0}^{2}(v-v_{0})} = -\frac{a^{2}}{v_{0}^{2}(v-v_{0})} = \frac{a^{2}}{v_{0}^{2}(v-v_{0})} = \frac{a^{2}}{v_{0}^{2}($$

 $\frac{\sqrt{2}}{8}\frac{\mathcal{R}}{T} = \frac{\sqrt{2}}{9}\frac{980.000}{(273)^{\frac{1}{2}}}\frac{900000}{(273)^{\frac{1}{2}}}$

-Vo

2.4362 6.7505 6.7505 6.7505 6.7505 6.7507 2.9372 2.9372 3.2045

 $G_{1} = \frac{8.8 \cdot 145}{63.3 \cdot [169.169]^{2}} = \frac{14.5}{4.3659} = \frac{14.5}{168.40.121.40}$ $\frac{3.2045}{4.3659} = \frac{19.3659}{15.0578} = \frac{2.2253}{2.0929}$ $\frac{1.1614}{4.3659} = \frac{4.3081}{15.0578} = \frac{1.0929}{4.3081}$ $\frac{1150.10^{12}}{1150.10^{12}}$

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$$MC^{2} = me^{2}$$

$$MC^{2} + mc^{2} + \overline{V} = M6^{2}$$

$$\overline{V} = mc^{2}$$

$$C^{2} = \frac{1}{3}C^{2}$$

$$M V^{2} + m v^{2} = M V_{0}^{2} + m v_{0}^{2}$$

$$M (V^{2} - V_{0}^{2}) = m (v_{0}^{2} - v^{2})$$

$$MV + m v = M V_{0} + m v_{0}$$

$$M (V - V_{0}) = m (v_{0} - v^{2})$$

$$V V - v = -V_{0} + v_{0}$$

$$M (V - V_{0}) = m (v_{0} - v^{2})$$

$$V + V_{0} = v + v_{0}$$

$$M(V^{2}-V_{0}) = m(v_{0}^{2}-v^{2})$$

$$M(V-V_{0}) = m(v_{0}-v)$$

$$V+V_{0} = v+v_{0}$$

$$V = \frac{M \ln (M-m) V_0 + 2 m v_0}{(M+m)}$$

$$v = \frac{m \ln M \log M V_0}{M \log M V_0}$$

$$= \frac{-v_0 + 4V_0}{3}$$

 $= \frac{\sqrt{0+2v_0}}{2}$

vo(m-H) +2HV,

- <u>- [- - , </u> i i -51 -57 D., 4-3-4

 $\alpha = \frac{1}{3} + \frac{2}{9} + \frac{5}{3}$ $\alpha = \frac{1}{3} + \frac{2}{9} + \frac{5}{3} + \frac{3}{9} + \frac{3}{9$ Noch Jegn: (p+=) 1 = 9 62 RB 1 1 - 2 a de = -9 & RO 3. (-8) 4 de $1 = \frac{dv}{dp} \left[\frac{2a}{v^3} - \frac{q \cdot 3 \cdot k \cdot k \cdot \delta}{2 \cdot (v - \delta)^4} \right]$ (++ a) 3 = de a 2 2 - 3 v-6] $= \frac{dv}{dv} \frac{a \left[2v-2b-3v\right]}{\sigma^3 \left(v-b\right)}$ = 2(v-b)2 = 91-R0 de = 1 a (v+24) Affin = (v-6)3 = 4 1-R6 $\left[-\frac{2a}{v^3} (v-l)^3 + \frac{3a}{v^2} (v-l)^2 \right] \frac{dv}{d\theta} = \frac{9}{2} R \theta^2 = \frac{dv}{d\theta} \left[\frac{a(v-l)}{v} \right] - \frac{2(v-l)}{v} + 3$ [2010-13] +30 v (v-l)2 dy = 30 v - 60 v 1 + 30 v 2 do do $= \frac{a}{v} \left(v - b \right)^3$ 1 dr = v-b = x $\frac{1}{v}\frac{dv}{dt} = \beta = \frac{v(v-b)}{a(v+2b)} = \frac{\theta a v}{a} = \frac{2a}{9} \frac{(v-b)^3}{b^2 R}$

W. Andrews in the

$$d_{y} = \frac{1}{5500} \qquad v-b = (0+7b) \, \partial \alpha$$

$$1 - \frac{1}{4} = (1+2\frac{1}{4}) \, \partial \alpha + 3 \, \partial \alpha$$

$$\frac{300 \, 3}{5500} = \frac{1}{45} = \frac{1}{6} \qquad b = \frac{5}{6} \, v \qquad b \, \partial \gamma$$

$$RA = \frac{1}{4} \, v = \frac{1}{63} \, v = \frac{1}{36} \qquad (4524 \, v + 6) \, v = 0$$

$$\frac{2 \cdot 6857}{3 \cdot 27} \qquad 24362$$

$$5 \cdot 37 \cdot 15 \qquad 0 \cdot 4777$$

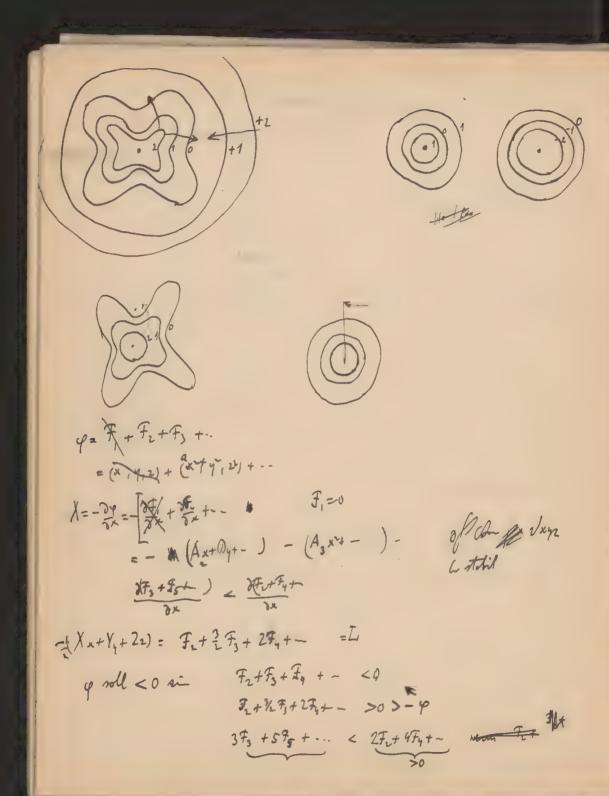
$$0 \cdot 1106 - 3 \qquad 2 \cdot 9133$$

$$5 \cdot 4820 - 3$$

$$-2 \cdot 9133$$

$$-2 \cdot 91$$

(C, B) OH : «= 0.0018. 196 1- & + 200 300 0018 = 1 Abli manight. h. $ba = \frac{0.54}{40}$ $ba = \frac{0.46}{2.08} = 0.23$ $\frac{b}{v} = \frac{1 - \theta \alpha}{1 + 2\theta \alpha}$ 0.6021-4 0.6872-6 6.5682 1'3. 1512 2 Winde Ment: 0.00009. 10 = 0.9. 100 [fact 100md roped! & wille with & kleine weed, in Wirklet mychiles



Lavnigra tig her mogledning

the second like the

14141 - 191

Norsa t. g. pray morgh divinin sit it.

Frankensta:

rodridt
Mers. - dendring en kin.

None. - Poltem wedrid pydhori

Clansius Vival

q = Sqe dq

P(hp) >0

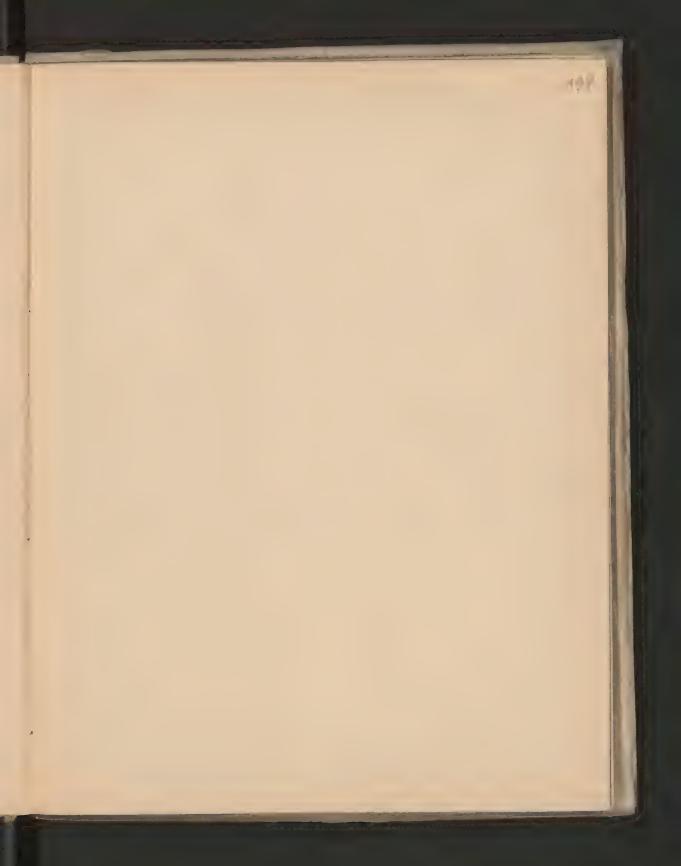
7(4)>0

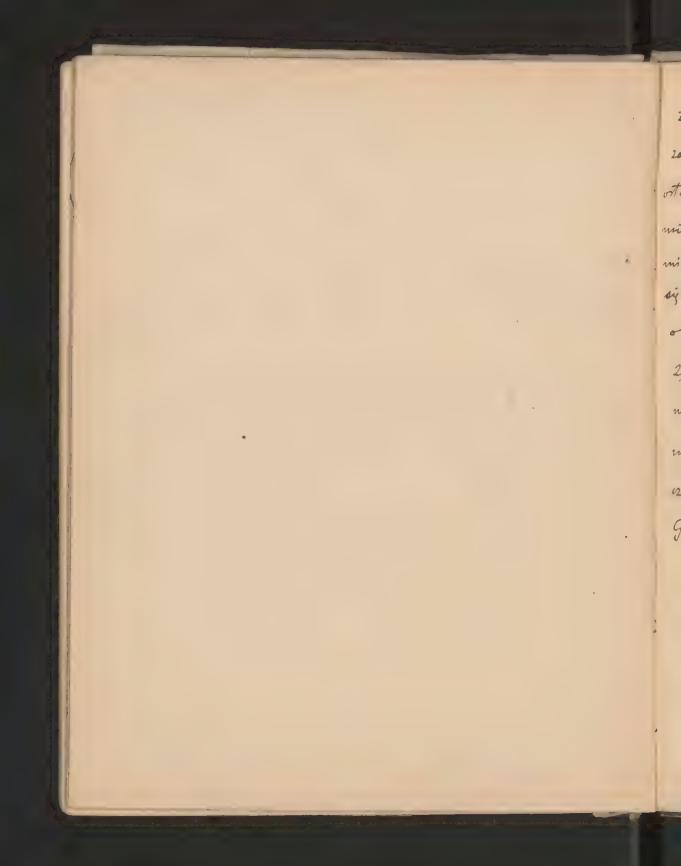
h==:

Jo (y ehy) ay co

$$\frac{2t}{3d^{2}(t-6)} - p - \frac{1}{d^{2}} = \frac{2}{d^{2}(d-6)}$$

$$p = \frac{2}$$





Landon priejdy do wtoring predicts che thy 2 fry wolf die 20streinia 1). ie w obce grommije motery at, który sig nyroma droll v ottotnich lotach, muse regrygnoran i jednokovyo traktivama caly proedmistr i ogramag sig na pevne prukte, ktou misig vydeje voinemi, mianovicie jugitini pomingi himose trong vortrovor, to to same press sig jui vyrosto do obszymich rozmiorov i zostujuje na orobne omorvine, odvitep nie jest w tupinednim ingeku z meni soge obe mani 2) ie nie myslę mowie jako odrokat troy kind ho mi się nydeji niegotis brum. Wpran drie walka preciato to to turyi - rozragta prose rinktorych fizy ków - sasami przyjmuje formy bardzo stanovce, Gesthern " ktory tetog joko Curiorm cherothyn pry torogé:

Me prenseina ngoi frykor preisie pregenaje is zosadnight for nie oghazaro, ie tating tomany mnortor z jawish ima drogg niegy-Jes nie geh jenore i ie doprande kafde norge nye hor , zate wightenon je in polega konty. Hogy vige be uppentor summente krytyhoval, co mi jest sydaji mi sig nisog tplivir useradnionen, bo soder is to six way preydo mis wyliamie wrys thick formula ktore na postavie podobnych rozumowań w wtotroch lotach witely vysedione, choriai se moie Vanovi adnios g soimi is tytel mojigo repretu milly rousi bramic: Drake postopor no joh tuy kin motey. Davnigna tronge kn t.j. teorga skonstruorana pres Clausius je se en avenir page somi formir pres Marvella byto operta no pojeini A. wany drag wolvdnej t.j. drogs pater ne ktorý cząsturka pours ig 2 jednosting pydhoriig, 4 tyr samp kinneler, ai nost prije (drastroet spotte amis 2 ing cy, thinks. Statethe Suday engy og tout no tych howatal drift projet sorgress sudny marging kinet. vojel ;

nie uwzględniam 1. Imiany predkoni w blistoni olugy upstutu t.j. o obybie Johnym stoven nie worgh ohnieno we wig town story with wyninongch prin ing truth 4. crasa truenia systhemia To potgravami organisin ten deg byten uspanialleviouen and ding Tarredsony; por jek wyth for my rimi. abu. Tym sport ryjernione preve Poyl-Gorles - Lugodie : Lv= Rt, a jakoniono unjesniono zjaniska taria wengtungo, neurodeur cierto i dyfungi. Wyord ango prevo just microlary of hopotory co Too story not drest off of may mothering pool nos edy storicor oblasmie tombyth zjavisk brym ag to by mindondring istrumie to king hijotury.

A oprove by what in ago motor (a then sprayabryt jardsh, mionaisie almosque eig de portundare al latings project a portibore strierdrono dri a sader alni dej to protee wyrong do not to a hardom rarie possythin siraday o wighternosi tych teory. & tyo noting preedurerys their nagh remions (Discontinualit) v stami gorn & Ulskini por stocrojenje viota stole, klica sig kange jet stiegame sig joen pry tarin mong ternem i prog prevodsenta ingle (tokie elektry enois ?!

Westing swyklaje teory' hister whanite ciny be gone lykoch with a workland production with the same from the same of the same with the same with the same with the same with the same production in the same production with the same processed to the same of the styunosii Jyn cz osim tokii ilizamii si sever ordlui povieredunii che turing posioredunii masti puristinduni dente protes mana zachodini uperut recedenzal masto zmiana, skok zordodni musi protessabili oddelulający pos od wale stolego, co tak dla tores urong turing joh t dla precodenda temporatura. dodedstown. Rivines pydhosii styronej croto stotog i worstry styronej 20 garn ornarsona (pries Du - f du a tok samo shek temperatura De - y on , prez cem f i p se stationis (proporcyonalnemi do son drag sorbodnig d i nie isel sig od nig vanagami. Cl.-M. M. Prolumo η 18 K Va

sil.

(to

1/4

Wyord vongs thick tops pear get nice dieny Do ingthis tyl restation jehoriorych Do johns words Home sente ways that typh 2 jarish wysterce prayzerie ofologoh casad terry kinety snej, bex specyalory hijotory to do me istato sil dridejeysh myder og storkami, Wradomor tydie jest nieslydno do slovious do hosadnych ollrand, (tylko pravo Dayle- Charles - Arojodos typ mie vynago). Odnosi sis to mie tylko do ber seglydnig wortoni nobenymi kos tareso de mienosici tokindo indienti otingut. very tunego, pserodnitra verte dyfusy? " (invre) ante as dital tylks port rotoriensum se sity so propory on elne do sa propo odlyloni 2 olobano vyrachovai (Normall ... Artinistrois Clausinsa, Kayero A.)

poder pag brysten fotts sensa parte a Clausinsa, Kayero A.)

poder pag brysten it vy tuski vyrineją sity market romi kulami

parte na hypterii it vy tuski vyrineją sity market romi

poder pag podernie produce produce a produce jut niestych anie mozolne. Lodo zmimoria tyl spologom kod s zalicioni od temperatury Atros jednok wykorać ie wasty drujej teny: Coninsistan de Sjed ayumki kajok stale prote rozmowani wskoruji, musictyly być propryonalne do & ordty prossy rationia, a do VO wedty drupy, polus jely one & muy thois wartosis endusione mozely term

pravo sity Sutherland jury storit not to repeter in inne must racho de l' pravo sity Sutherland jury store top hi jotus, in ove ug tach-limon a ro toma, on caretal 10 kulami à la Clausie - Marvell, there opine type jure of principe 10 kulami à la Clausie - Marvell, there opine type jure of principe propriégation sit site of the spunglisary tought plant hipotony Van de Warles. pt Permie it tokich sity musicalyly mire ten skutch in syntyty orgetuski vydavelyh sig mnig trandeni" t. z ie spog drietalnomi przy wine; temperature, of moving of gradenie orgatich jui w soling obly form by sig my downtely sig wybrag anisil' may wysing temperaturer, i is worketth type amount on the modern kon hold my top the state of the manifer of property of the state of the same of the state of the state of state of the state of shejlejg og vilkøri ett, vige mil deivenge in more je tok debrei' ble herdyr gom je zam formilke z= yo 1+ a C V1+at 2goden sig systarisaje io 2 divisio derinsons. She pear tigo no droja mnostro Lydia mois 2n den'.

W pravir brithelands a kardy rosie just 2 ausota Eline a 2000 de 20 sity or withough oblights wach maje by prays ago ju a minigraph silvie objuget oje ce gale Bams popsie kul sityonych just niejoko nasivną abstrokują objuget oje ce gale Bams popsie kul sityonych just niejoko nasivną abstrokują toto i siejoko nasivną abstrokują najuie 2 deje popsiem ait propospojetok a žeby pravo brithulanda ląugu to sa sapti popsiem ait propospojetok a žeby pravo brithulanda ląugu to sa sapti bardeo midapraw dogo dotog miolo objecio provia dai vze cayas stroni, Just to strong bardeo midapraw dogo dotog miolo objecio ktorij w dolony cięgo jesuse worne objekuje cajnić koleiny.

Jeh vogile precioho silva V. del.

Joseph terge kintyras long mod rotorover tengs kinety ray do

goror regener onych, do ciery: cod stotych userbydnem jest moglydniemi
wilkoni yeng des obonia sit of jest celen novnej teory: kenetyraje

Jawnisjang theto dy lutor vigo sig te termo nispystar croje cemi do pekonomi

opomnych ten drusni zat portoje cych; k tylko dva droj many

opomnych ten drusni zat portoje cych; k tylko dva droj many

i tetot kto instrumente motim otycam manny or dotod, ktore

nom tutej ustej oddavan moge i ktore no ktorel no ktorel

opleran mani t.j. Clansin's trindsimi o silm ka i Manarala.

Opleran mana povo o rozdavele kneyn kinetyrani; pydkom v mystanoch

Lajming in nojpural druje sym thriadrust pourses prisone sin kommunitario politico prisone sin kommunitario politico prisone systemy eto rome aproto prisone system eta sola se migday to rumi destalia Oznacionisa tota decini o silvi ku tomi o serela. spine potente to the the # I M + 1 = (Xx + V, + 22) = 0 godsie I oznacza calkanto energie kenetyczną systemu prostor moteralnych, (nervene nothing) this he expertent w -Lorodei in v bordes party sport zapomet zaroigge in ginds portrædiminis get staty, jokes løde frank uje utvor ond pur sumony tom systeme get staty, jokes løde frank uje utvor ond pur sumony produce i spot nydnych musi byé mission toma i trocker, cota toksi co pray oghonomin ramistorano of 2 m(x dx + y dy + 2 d/2) =0 dej projeny orn, sil tostorovija to do josu (lub ciesy et.) poddaniga jednokovem cominin p & naceymin o objetoni V , traymije siz, ostoraje p to comment of vesty sit X 12, (Iton majo teros ornaire way tore sity) stayming six I= = +- E(Xx+Yy+22) vittig stry joko postore do obrocharamo romano interniongo (tutando glischung) matrixyi.

CI

Orsporbunania women to diriefore just huntya codo vighere tru duroni nostreura erozumienie; dyskusya post tvierdzeń N.; D. Jagmass Backways nomenklettery saprovadkong przez Dryana w svem cernym Ortand Ass. Rep. 1894 norysony Ath proven Nonvella co do vordriolin energi kin. martipujs u pravo :

preli v systemie dynamicany konservatyrnym obiersemy popularie

tok ie energia be dein upravota eig para jako omna kradrotani ich

(momentani gl= dy-du

predlosici to v starie stalym $T = \frac{1}{2} \left\{ \frac{d_{11}}{d_{11}} + \frac{d_{11}}{d_{11}} + \cdots \right\}$ I hednia vartori karidyo z tych kvadratini (1 j. crzni my przypadysia na med pa) de dei roma: (de) = (de) = ... Tyd cremi bydni tyle ile syste ma stopi swoody no hu. Hardle Mervell-Odtomama trindrine 200 opius : Pravdogo dobien the ie o tokin systemie med anie nym spitnedne majs vartori v skybie p. + dp., pr + dpr. - a prydkoni j, + dj, b. Jett prysry or dre do e hl dp. dp. - dq. dq. ... gden U = potenydna v orga white dein njetangdnych to he

It room is Novell offort the toindsmin (1879), radshirajs in prototo ; ojehnorino zastorosami, ai do dass'duso cio gle thro dyskusya co do sestori tych trándsin, mianorin Sugliny opomne fysithe cagnit. de dy to my josnic de mino to (junce touty me moine invoiai ro may he Earenty whom withtown wemmoranion weigtyn per Marvelle, ale te udets sie popravić nie zmimiejez sni orków ostatunych. Hownie jidnok przecioniny oryd trinden Opterada się na tem, że można do vynoleń systemy mechaniczne, które nie in is. ole ozni zadori nyn tvierdsmion, zi zaten semi meg om by ojehni wine 18 Jok m. f. Inda Kelvina test case 1). Watern i Durbury tymerous fished stonel' sig ry do kon els! mutode burden weste veer burbury premed no strong skeptykon Ottomanna; poinces je duch Durbury premed no strong skeptykon that manna in poince je premie vylkon v helm napravad traste wojny wyporiado (in type roke veerie vylorie besquity ktoro straste wojny wyporiado Santya tvierdsenion. +) Np. E ... S

Ourbury preedersys this eveces in precioto rose deis night; gran Ottom do udovodnimia trustoni noktodu predborii. pardisettinto ich men pregjungi ie praed spotkanten dond ergotiech pardisettinto ich predictione. Wige voyble juils f (u, v, v,) just predictione with se supetim missoliene. Wige voyble juils f (u, v, v,) just predictione with se supetim missoliene. Wige voyble juils f (u, v, v,) just prediction with se supetim missoliene. with te pravologo debolistura aie ergetuska ma pydhoin 4,0,0, 2000 er f(u20,-) in john restule na pydhoni Kure we; to pravdjedhil stro romousenego istnienia tych ejavish jut omassone przez towym f (u, v, v,) f(u, v, v) du, do, d, dra, d. de stosnie tylke stedy jeseli om og at wellie mierdeine. Johne rommon ami bordes prosti; ilon' spothan' Jut propory on dea do tyrungoine przy spotkaniach enomi sig: =(4, to; tw, 1)+ ll, + = me+-)+42= = (4, ++v, 2+v, 2+v, 2+l, ++... a faction of me my ported eksponenyolig, to f, for positionis = f, fi burdu i dagig strong ordty enougo tradenia Lionilla / du, dv, ... d. - e/. kon fifide: ...) To anace jednak romoceisni ilori spotkari precionych 19. total the star samientje pydlami ese thack 2 4 v, -. no u, v,wife, pomissoi jeden prous bydan romossony preus drug to soyok mi nostopi emiano i sos bladris. Ourbury ji dnot posrada ie jirelt joho's ugstruke ma prong pydkon, to the one press to jui explyes no pravdogo dobristro pydhosi a imys Treg sturback, ie tyck ejalok nie mang sate maisi joko od niebi niesalienych.

Tarset ter solgi mi eig celkien uspeardedlivionen. Dopty for just handes
roseredrong wife drage willhose sfery sit mote a programie 2 orlegtoisenugstersek, oregoriscie mohy ich moine przyse jeko misoliane, ale to
zotożenie nie kydrie uspearse dlivionen u pystych proch (lat cherok).

Omburg jidrok jimel dolij idnie. Mathyji dovisi, že przyjicie ovego
rosktode D. M. doprovo dro do orong tu myd spreumoni, które moino
tylko usunge, przyjmująć zamiest - modery rajini
skompt kowang frakcy, któro zamiere w bisnisku opise kwadroto pydkom
this

Radmuków, ladio skomplkovanych Dubry zo, precisko który

niejeden można zarent poslicić, nie myg tutoj spa merzitovo roztrzeseć,
osponny tylko że w jedny z ostotrich zerytow Wiedemama An
pan Zernylin Syöro' knustyc poslicióne prece Duby objesino v

zo danolojący aposto, tak że nie poslicióne prece Duby objesino v

zo danolojący aposto, tak że nie poslición precisho metalin siste puro), nie wynto

posmiciona proceso D.A. I ztyo jednok żely westot luf story.

Tarret przesisko metodnie dovoda niejty prece Deltarna a zot obcory,

ele na majerie many jesuse zujetnie odnienny sposob vyrodu.

Otriudra nos v tap zojetnyranie to że

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op orty na pray Naxvella i vydrtonolony piece Den Tondo Rayligle, istory 2 avre the star of po stronin obrois in onys peases. Hytarony sobie system medanisamy ornersony pres norther daysh p. - p. firelt te sytteeden maje worten dane nosvinny to konfiguracy systemist juste konfiguracya lydni się wse ciągle zmienste, ale mae znow stange się to moje ministracje pydroni, to samo co pierostnie. I danej konfiguracji spotrujeni wiek wiet speli wiet int. ziet i pud by stringsioni nich wiet speli wiet int. ziet i pud wyrenienieste i fora. I by stringsioni tokiet samych systemos Jetin system og letin system og letin system og bet samoj konfiguracji by obrazi my sobie teroz romooreinie ten samojsten w tej samoj konfiguracji. [allo steriorie is konfiguracy; wehejquy six mijeley granicami 1. - 1.+dp.

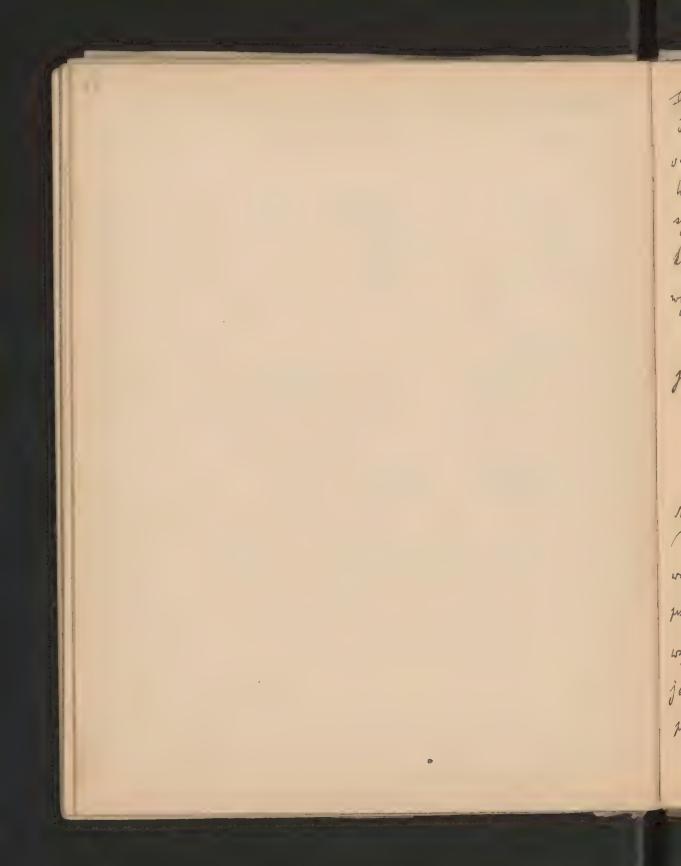
The Ji strang energy [also steriorie 2 everyly att converts my day Fi THATE]. Wholy jim so more by jobi to emyle collecte Attada sig a energii himety mysh poji olgin ugsh mohois itu yo, it jest donoling vije for o just dorrelna. Utožymy pydkorii us tin sporbl, ži uszystkiu fosy sporodnje operadnje dangen gramicom energis, i do topo stoletje się dangen gramicom energis, i do topo st to to a ilosé systemóx peruj fory morrany perez reforem roltede v pronym sensi romo miernyo t.j. iloše systemów fazy zavarty migday 1, + p. + of. na by propry notice do do do do - de de - de millough attache promod systemio my shairing stie june wich wite the mysterial matroych Thudy their daining is coly to Med by his is the systems perny fory i kolipany protes to mismim siz z cross. jusili posostavimy & wrysteri agetin some robie, tohis motor I not not in

Lotro tog dovien. Whatch nohm nie emotinisis cathonto energie tylko ogstry obybu 1. 1. 1. tolp 2 amilion sing trofiprious; less: h' 1. tolp!

KF Pu gatola mayong inng trofiprious; less: h' 1. tolp! to systemy to ilore systemos, etore davring miety ove but i for KIPI byta wattgreating A dy .- dg's from whith motor in comoring in a K" F" , de 20 to jungleyty one the Frystry K & though this fut A dy .. den. En ane trierdzenie L'anvilla jichok giwa in przy ingsthis motor machanismyst of, - de = de, - de party ni emining in v Anth who . Loten nostypuje tytho yphone premonen And. i for, tok is stort Loi dye vodegis poutje nisemiseme. Nostypnji pytanie nich myder turk way thirm systemami got tokil Jokie ng. Q. ma penne worten q. Q. + de. a inne strydne wrythin mæler vottorith to joki beden prondgrodorister
Sdag-- da Calkonite ilm antinos projeknjini.

John $T + V = E = V + \frac{1}{3}(q_1^2 + - q_2^2)$ $q_1 dq_1 = dE \qquad dq_2 = \frac{dE}{q_1} = \frac{dR}{p_2}$ $dE \int \frac{d\rho_1 \cdot d\rho_n}{\rho_1} = dE \int \frac{d\rho_1 \cdot d\rho_n}{\sqrt{E - V - g_1^2 - g_1^2}}$

preg sem Hog worde nobig is 92+ ... 9 x <T Otregmyji rij $N = [[(\frac{1}{2})]^m [2E-2V]^{\frac{m}{2}-1}$ 1. .. p. +d. do cother filis a joko stomak stoni nystruir gdsi [Notinglin Super 1] $m_{r} = \frac{\Gamma(\frac{2}{L})}{\Gamma(\frac{1}{L})} \left[1 - \frac{R^{2}}{2T}\right]^{\frac{n}{2} - \frac{3}{L}} \frac{dg}{\sqrt{2T}}$ juli is ty work entiry him now to a jule staring = induguent him. mg = e = 4 da / 27 / m jednej spidneg dnej = fit e tun let = tr $\left(\frac{n}{2e^{2}}\right)^{\frac{n}{2}}$



Wommek komereny do tys jest v kordyn rosie zatorenie Makvelle zie wystem musi być tyn rodrojn is piendy czy pieniej przydsie piez kordę system musi być tyn rodrojn is piendy czy pieniej przydsie piez kordę kordę tonfiguracy 2 kardę możliwę forę, Zdaji się że to jest toksi warmok konfiguracy; 2 kardę możliwe forę, Zdaji się że to jest toksi warmok konfiguracy; susinost sprowodzie pokorci że toksi roskład fie wysterczający; susinost sprowodzie pokorci że toksi roskład fie wysterczający; susinost sprowodzie pokorci że toksi roskład fie pytorczający; susinost pokorci że toksi roskład fie pytorczający; susinost pokorci że toksi roskład fie pytorczający pokorci za pokorci że toksi roskład fie pytorczający; susinost pokorci że toksi roskład fie pytorczający; susinost pytorczający do pokorci że toksi roskład fie pytorczający pokorci że toksi pytorczający pokorczający pytorczający pytor

Night was total organic the redrois, the women in the is optimo on tay damy system just top redrois. Over the predict womander prophet ody there presioning prestocali jako contra-agenmenty megi to worker se nie ceynt to redois term warmelowi wife mis mano je wered jako trespe. Total prestat to jet to jet a promp susie prophet or oblive.

Out prophed postin do objestiminia.

Ly shoring solie smith blord i decline gradki htvorrapey i decling to have month to he have indicated in the promotion promotion of the processor. I will sencing know a pierraken (i declini) protop of do 7 jedniej ściowy, to mich porostanie przyodyrany, protodrówy, one bychniej ungi is to san grid who sto. Jisili rening not johin's byte, total orthjenie nestypi w tu prot i kula z crem po shore police kola prejdni - 2 vyje tem to puring v irodku - jisil: przy. othen ten hot nie byt tok obrony in y=

(had byth, apunded" Arteria)

pownetly sig tylks to puch trugth a boken. From Dojobicist two zilying vlosinie utropli toke ket (notnotysmi suish) jut miede, male, pomievoi jut nick vijej liub magnicny de nie ugningde tokom jednak prose korden prunkt plæssespring kula prinjelen tylke i drend kierrukark, francen francen tylke i jakinis migsen Jiseli jednak bols nie jut skednie rynlarnym tylke i jakinis migsen ma mode ninglamon, to seem ny ytanismi eleptime to seem to kordy stigen kuli tiermek je trody sig emien i 2 new pariersch's entani pokrejte siene drig ve ingother a kiermkach. Italy we ramicosconie u2 = 02 be way this of prombitail when. Me thing M. Dis do worktoods protein ways jessen wigner mi moins for the son to system from the matter hand, ale

De

Trang Dajmy tra to in ritrigi time wilke ihis tokich publish ext hel Hon jednak na sider nie det doje (prechodeg prege vilhie jak duchy). Cay to moine wige this. OH? Desprision wit, bo kaide kula mi envin. My moja hyi odi pour thoog ise syste nie przymie czystkih for możlingk. Injure juil' jungjunging is one in sourceiz joh kule aprijeste ollo w jokis imny sport no orti driatoje staly notly wymiana predbosis i stidy more through none thousanie. Juny profitad: AAAA Kule or kierruke prostyn, odkijeje się or A;O mydkini poug thore e,c. ... john kule kydni mosto pieli mosy roome, to savne jetho kule kydni mosto pydleri' i, jeker inna ez ek - . Injun gely joher przysyna majog ca rydornosi s.f. moto róznice w nosii, albo uderenie eksentrycem at nestypi walted M. O. Szorejshie ostrony noling być re zostronowanou N.O. do systemów Noine poindvier wounder just miestolosi (Mustabilitat) on chear sktadorych, som hoden sig wohnt boto kiji justi vormski pong thour troby Amiume to ruch one who in hoten drzoje ych. 4 Edgi sig ze & gerach, cienal th. v karaly rasie tewarmhi og spelmom 2 backs vielling prythizenem

be rolted Dr. jul jidynymniting ty D. dovidt - de tylk dla Josow worsedrought- reposition stowings says " Ninimum thoran", # frakcy H. Do garor zyen cronyst et. forothe typ z pregrage daving oponimanych nie moine zartos ovyrat, ponimai usyva olisanie iloni gotkan Odyo on na Acionomi stario funkcy: H = & f lyf, którg Artteman identijf, krije 2 entropie goza (2 vjenny 2nokis). Oshornje on, in det more nice tylko ench njemny, zoten H dorig a stego nomenio stregmenje sis jok do Minim, john III =0, intedy phosoposie ingelijos in is webted toly, do którgo gory dais webt. O.M. Overioring trong kinety cruej standarsing represente predurings their Howe shown to interpretagi prava entropii. Moriono tak: juile warnit da and njewny to de storie in Addition, a mage to waynis, be many to tylke is very the post dajivision fiel vrytten dysosi obier se enden ujennym (výr tok some vielki oh v primny kiemnku) to mýje de magici mergligdnic' to v over wrone døje dt mak njemmy, 2 orgo by wympole konsok wenys dH >0. And the provide , gdyly sig un ysthin predkrision del make njenny, svet by sis cofet a tyl, the ignic wrythin process nosts protyty

W

V practionen himmaken; tokse pravo entropi trube by orrivin.

Normallo ormis demonis suffety to whaternil my jednek nie mosimy.

Tues on: jednek morry: predkoni dodotni i rejenne są rovino prevdopedoka. when i novini pravdopo dobium jut ichy sig entry og surgenete jet ennergoute. Ited the portoji z tys ie nie skreslamy blizi co rommonny pod prav dogum o danyn rosie - jokie se te morther przypadki których ilosi jut mianomten Justi my obinany n.j. ngotinki mejan pydhoin i dojung in roim Justi my obinany n.j. ngotinki mejan pydhoin i dojung in roim himneki - nin wedng - o pydhoin kat then pomedeji - to penni bydaig mang we vyroisis dla pardoza dobori stre rivarie præsde skong in aft de datmi jeh ujume, be det beden utaini =0 Isa najprovdo bnigny jed wtody stan empilmi, ungeordant, stan stoly Idaie Jamej whated O. K. Onfloty h. p us us nodang segini nisprovedopo dobog zihysmy zbygodkowo da josnij ujiri zacayna wojejli same vzertusta respoz m dem w kijech +X a de delig a binner - X. Just in to jednoch Ata to bydrin news nadssyrojne pravdopo dobne že dit kodsin ujemmem

Jisel jednok system recognisty fizy any nem jut fakty enie dany, to "prandys debuistro" wongs wheaden its musimy warse whatad permyth warmhar parathoryth joko dany, so do ktoret ni možemy morie o žednym mardopo doblenstine to nie vieny otherty sakie jest sostad sporodovoly, innemi storami nie vieny collenty bothy presty eysterm, vige study muchow more tylko uncerai pravdogot. Et v pennye moneuci erasa syst dany puyjimi ove mely a co do typ nie many i adnys pravo trierdal ie one lyderi rom dle pydkoni det trogt suiperryt. i analyrsnys quecinnegs. Paus Ajssinis sig jimu lepig statek olytengi pises mogledininin trierdains ophys muhanianez Coincari's is waystin why met systemm dendings konservaty wrige zawse po uptyvir getings væn sig portorey vige zi koli spresory. Formolo tvierdeit zi to governo Her trindrine o entropi me modely zestos ovene do tokich systemos wige ie ander one mi de sis vystomany' medaminnie. Alternam pranjenie pokoret jednok ie mizachodri iedne spreus non jusili się ove mie jeko mie jeko mie jeko mie jeko pranje i trierdremente mie beranglydnoj pravo entropio uvosa joko pranjenie. setsloni tylko pravdopoddie twie nadanysiej vilking tok jeh crysthie nose preva fry sne empirysmi poznam.

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Make Just 1 and possitive : 1 and wordow polostaverny arejement derstamin, to one lyde sig premholy mantick dypray i byde deight do romonionego verktadu - tagt H bydni sig zninienato. Prevo vertlade ON get granch tylko prave provdyvelobristino, vije totise to whited pray Atom poloso nousqu'in just He, chaye potoro proietire, ma penne prodoci nadore. mate provida., zatem po uplyvie jakryvi ogramnie othyje crea musi sig fotosye los znown kolkovita odnienanie - co romiti vynike 2000yo trierdservo Limos la - ale esos te jut tok opomny, promby. ove tok måle, ie nie many iodneg widoka, objimy mich rer sporbnore spravdsi dvivedexalni toki sjarisko obsmissami hor jednego mm³. Jung pupiled: Inde a motorgale mie Audinis apijetys orderes o oporg sityong noting town profting on an how warning in energy winting. Wholy proving no moets with the english temperatury. 2 crosen, pomovosi regularità signi pra magili - navet a dradicio majo permo prantos. - navet a organi todadan's or of spa uprasini robing costincianie, in oyat projeti pun ungster modine konfigurange, - 2 dasig sig taksi se ungsten pydlevni wrighted storror ledg miet jught rowny kurmek, while ends same prez sig russy sig z miljsca, moje temperatury & sero - was pravo ent. 20stonie pritamene, de to tylko na cherilke, lo poten enor nastypi niesmourin oltigi uns, glice poly mergelornyo ruch ciglingo ugstarak.

the fraces (pro though derived young propheries entropi (americal)

product] is a protige source by chain spottrepli evisterini entropi

(running in H), ale nie wolns stateagels vai tep prava na niestoniami

othy greens cross; the jet to come apart confident tokie triendamis

joh n. p. a totam is would wint of turing origine stan nierdonist

mortanty worketh depring energi, wedty town; mechanicany mi

te

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Japano Morallo io do vordrote energe kinety isnej wisisnie zastos owano do interpretary stormer cité stating & pay grand. Jisels ezgetuako jose ma n stopni volnoini (n metorget) to my die na nie na , phie formeror keither spotuzdnej odposiedo rovno ilon energii kin; z tego 3a na meh posts pory, w sig rown temperatures of 20te d= 3, E= 30 to.

Oprove tego morgh dini roling energite poten yolng pray polyrosen. temp, m.p. whentak anwany alyton' atomore Atadmiay ch it ! = va = vb 3

phie v ornaise staly wiethor', i was uphrang programme processed cismum evong twemm / polv = mc2 = # 1 3 B $\frac{2}{c} = \frac{n+v+2}{n+v} = 1 + \frac{2}{n+v}$ Joh wisdomo Pottemann Stonaugt rozomore tejs vrom vartoni K= 1.66, 1.4, 1.33 ktore nogstykanny po a joron jedno, den- (satisfy 1. Tregjinnige joks Antoll crystick Whale colkier gladbie Attady Oprav drie marry 6 stopper nothing making 3 spikrydna micha postsparejo i 3 ruchu drotavejo - ale tych atotnich nie nalice unrzektil pomieroi , juili bele og gtodhie mely obstore vojoh ni byde iednego misty splyon, reter n=3, v=0; $k=1+\frac{2}{3}$

ren A)

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2) Alpridy Thotor n=5, 100; K= 1'4 3). Iprovedy trajosi one albo vogili i ato netyone dorolnyo kostatta n=6, v=0; K= 1:33 Minime wortoni stormbe & Totos upttomacezi przyjmie withough Non ruchor very trangel, tru davosis tylke nostegereje te vielki wartoni K. Truduosii polegoji ac eta: 1). Stormek osi dijsordy trojonový nie zminie stormku k, alto on ma vitye na vos relaksory: to! ne priesig von poterebny do vorgenjus stem stolego, van mnijne różnice mydey ovemi, ten dlizny voor by drie potreba si vrsyrtku mehy sig vyrovneją. My vige n.p. gas mid k= 14, væsturki muridlyby byé moter otguni gtadkimi ideohemi ciolomi obrotovemi noj mmijneg brok symetry i zrobi k= 1.33. My Jokanmetry klistomi. noj mmijneg brok symetry i zrobi k= 1.33. My Jokanmetry klistomi. 1. 1. It, the just try - also prisio vartosione. Tige Dolte mann the sodsi, se one warton a moje byé eventudini 20 viellie, ži josy moją is recupistoni mniejse k , tylko ži /2 povod vallings is can relationing uset detychrosony todanion. Trustus spokie's prondom dobiei this tys przymuniante dla tombyt gazor, v kożdym rozie stowe się to nove pole dla bodań dosiadesolnych: bodania truiumośći cieste otoś circzo zcrosm (spo Nachnishy d. y W.), która

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In

2 perming offryro encure who uporous wieb atoms with i more pray aymisis do wystomocrum's spreismon doty his nowych resultation viringel bodoney. 2). (Golyby verturki byty waterni przystemi, toby jet z czosu cota energe mehn protypovego muride sý zamísnic s dreamis sprejeste togo regotisch, pontroi Ho if Kelvin poriado hela sprzi ysta ma n =00 (nisk. viele drzeń frandementelnych). Npravdru zdeje mi en iz zachode pevno ug tulivoie czy 2 Koimi Nouvella tutoj just s'is she spothione ale Turbo pregnai zi ostothia volovi orong trough munetaly byé bulprouvana vyhog anisils ar Organie jednak ove prísie kal moterzolnych był tylko sporadrom do veryistoni. urmysto isima spry driedenia sit i mi moine mysles o ten oby journe wrysto isima spry driedenia sit i mi moine mysles o ten oby journe with what will be to regard anight of site of some sole spream (site program of ship and object, and apply to up. 1 to the program of site of ship and object, and apply to up. omijany to traduon. Me z drujij strony muchny pregraci iz more sig oblysei why dryetu imago rodreju, ktore povoduje
more sig oblysei why dryetu much mistrich why a minigin.

promisionemi. 2 tem our precisi by wife object soldy note In jidnoh v gre vehodsi osrodek, eter, w na który overnohy sig princing. Jego wytyw nie moina subsumować w sity konsuratywe enjonovane przy vyvodnie prava M., zotem do tych m dow nie mienny storovací prava vordziatu rávnyo energi. Wkrousa to v pole niemango 2019 aku promisi ovania 2 strong kinetyung.

On tym wegleden Stoney podgi myst is bosoresunge more Hje polegai na tekich mehach wengternych ktore mają stormboro dtogi vas relaksaryi. (så tylks u mely stopnin 2 vigene 2 inneni udami vige) 3). Jisili sobii wyohoianny storny Joho prinkty materydu otocom spreg sit, crastiska jednostomer bydsi mete n=3, toh som jet kelo; ngstuska dva atomora n=5, ale tylko jisli odsty dvad atomor jut niemiemy; s singe projedla n=6; toryatomore v ojihy resi n=9.4, Wize jisili potesuie migdzy da atomami zut ideoline sityone, motematy uni missmienne, to fedri 2=5, K=14. Nie mojleto by n. p. whentersionen preses polgreni fizyesni setyene, sopomore ale Solo to many jobel got motived thylory neb a open top jin as Ved (206 picais).

To to many jobel got motived thym, a milance office of moving other years it, a var in many for the first mosely environe na to se moving other years a whose emissione ways for the file type of the property ujemme, bo nie konscisnie muri sig porte know www. tuno energia poterycha pary portezionin temperatury; Ina pright or bydsie do datnie jiseli sity są tego samego rodzoje jeh spyżyston, bydsie sidnok ijemnem jerek n.p. przysię gamie wedty prave za to study eminipage tis ofter May (vige viellose orgotinek! 206. perglit, Sotterland) pray pologinerim temper othery. just attend befort they

, . 2 7 Suponey's jeko przystad ruch po kwodnie kota $\alpha = \frac{m}{2} \frac{n^2 \omega^2}{2}$; sile odsinshowa $m n \omega^2 = \frac{A}{n^2}$ wife V = -2 $\mathcal{U} = \frac{-A}{(\mu - 1)^{n}} = \frac{-2\alpha}{(\mu - 1)} = \frac{-2\alpha}{\mu - 1}$ N.p. V=1 Ni ogdre naturalni riby to by wyrosen prevo istriuje ugo bo przystad to polya na borden upon crouged postavieniach. Przy pravie Dely: Octot o te jincu wpomseny; springinione tokie potquerio absolutni settorie, app imme enos pot junto springte [golsi ll=], præs es strzymuje vielkie n+r ejoblogs g nig 2 faktyrnem K. Ha morny jednak isodniej progragay super mei into modacji majegstys Nie wyjaśnia to wede kwisty to pownowij; do top aneuenie je innych jeho potareno jeho netyrnyk prziejstyk od jeho dowolnem. Toviedrichimy il zartorowan i trindemia o silnika; toturdenis MB trong jedyng drog ricyonalng do teory kenetyrong paron zysmeonych A viery i went with thigh. Jak viedomo Van d. Waels wyrin't swą snang formulty 1.+ = = for vot se e Noima ie ngstuski mosiec mobin jobo kule styrone mydey którum stunge june sity projegoje a tight fore just stronton ville v storuke do sottoper agetinch varingt. In partipired is may ten twierdenden

Morium pinoty voi spravdsie oddgi backer v s'viter sprák johoviciovo zjaviska zashodega preg zgeneranin; skeeplanin gozoś ale sat dalekin gut od stoiciowi doktadnosii. V spiniedgio muttai hyten Orkariji ziz to up mianoriii w objetom hyteganij, strajatilog The spiritism was punking 2 romanie otrynotoly sie vx= tj. 1 expety obstone, leting by orporadate englitum prave Poyle Charles, pod nes gdy lisme dri sad senia mian. J. Honga produly joho worton ovego stormker 1 3.7 -Riteries pokoruji že tokie z formy of I streyn Thy sis of , we HANGE a mogh drogge dodotne uprienie nuya () jime vykru vortoni. Z tyv on vnioskuji za vojeh rovnami formy nie more orporioder recryitationi. In wrient 2deje mi ny predeseres nyn be nie many pregragny de pergenerismis ie delice potys mura być dodetni; peserimie estermi delm griting my ne mong hymit ytele.

pergeta wyrożenie bydni mak mock - "rije możebyć żebyżny z 2 malinego voir and usupiliziones otre yn ale voitor psybbione de onto \$7

Iliterici padoji dva ime wrozy: pv+=n= 30 i pv= 2 ktorych pierwszy dotby strank v. = a dry: Cierrory je drock mi gut week terget was a driver just oparty na formite 2 tropy ciery Dretinici'ego, który doly hobiumy krytyhowi in jede an dry mi eryri rador warmeken per v = & Wire tootgant nie moins ich urnak ze stanonisho tweety engo a prod vrykjeden dri viederdnym vienny tylko er zledneja eig v tyn jednym prinkeri z dos viederenem, delse inne konsekvinge mie blizi 20st oly one jinen sprands oni. Romani musi mic kntalt p+ xxx) = I q(v), jiseli uwarang un tarki za cide mty om johigoi todi kontalta; nym he z tojo ie mozine waystere pydkoni zmitnić v perny stromben pour co nie zmieni sig estalle rucher, tylko esservice. (Rayligh). 2 Lity atrakeyjnegt sq party priomanin do attopio orgetisch. Solyty byta mate, to the tracketje early pic frukcye vi I. Jireli jednok væstenki nir og idednie styrne, titte cutter tig to propor eyon almore is in the juds sity of get open mis steps ing oo .-

collerities de temperatury usteje. Tak n.g. port ratoriem an travellinkel sit As stuyn John sig romanis (Outton. pr+ = 20[1+ =] John jednak belgdrin propor you de do gestori i, do potogi 8 3. Tego rodsojn just tobse romanie knototh . + + + + = RT v3 resultat empiry e ny 2 livroyst mostración gobie a ; b og vielkorism
2 miemem: a = A & Nos Ro ib = 1 2 0.0726 A[(v-2/)3 + 3.34 /2] Romanie to pt mimo every skomplikovanij formy zaviera tylko mitragum to tele, i cagni zadorie spetalela trier drenier 40 0 de store course ; jet storeje sig ono 2 wielky doktadnowie do doo'niaderen, ale terretyeens nie ma iadnych two tyrugu poster, to in more byé morane tylko joho empiryma forméla. "Rommovania trouty some J. Revy ann sq blydne, mionovitie the mong tempesting jul sudma energy kinet. ergotenk wedthis coli droji, a nie tylko s organisch droj jedrie mta = 0.

July in ud & non in Z jony moine preservidrici se zostos ującety pojstie V. de who do isiczy nie monen obregod sie spodsieval pomyslugh resultaties, dopoki sprobe de obligati vartici () mie 2 namy vigat to ovejo suregu 2 viz kong doktadnosiez, pomievai tam & jui en own musi worten (20 perm >1). Hystorie to do orgherent Miner toyta, 2 tij jury is jury tir solesanda teorga cheory or ty formin jak sortala warring to press Voyta Dieterici yo i rollnera just ber prokty snij vartosi. Voyta pionotro teorga byta supetine
idednych "Tieces pomieros nie mozględniela wede wielkomi sfiry it odpyskaje vysk tij, wooide septiaki jako proskty nie joso kale. W dryfelf responsie formandeit Vort spe inghte might conto senje (+6+ ale pereprovadrenie trongi - poming oney monet our voing zans IIjust missiste, oparte no przyblicom och Albery ktorych optyw trucho Joko sturny wei any postave ie tokie is cieny redn's energy kint gut mi arg temperatury, de Vorgt i Diet. nie przyjunya the go ty

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1/2.

joho resultat pran Iron. - O. tytho stareje sie je dovier - 20
sproof co pravda starovers niepearidhur.

Celum tych prac pot preducenys thin judna violenie cierto utojonyo
parovania. Poji (; Dri.) strymnije vroz:

L; = 'z Re [hy **t t * t-t - vf-t]

gdrie Li ornova cierto parovanio vernetum t: po meje olnim

pary serestrinij, v =

Okoryje sig, it i srusyristioni ("); jest pravie dva rosy toh sulkie;
Nilner tokie recegnisioni otrymnje ze svoich oblizeni posložina vortori
ovego vegrazienta, ele usultet tu polega na Hadrie omylu manodine

Moria sobie osugetii vrystkie rommovamo kincty me co do tyj
whom Ii waige it usyroje sport some termodynami vrgo
olla stann sice-poro: ve - vg = vdp i maioje že

dla stann sice-poro: ve - vg = vdp i maioje že

romano stantungo;
co daji na Mit pod rotvinim Vd. Wat

Nergodnose i rengistorno mi moie nes wed drivic pomievos mighte rovnome same rostorovec do stenos garie o me westore 21)

Ny cho drg. 2 formy storo put ini o palm Topin dr stadniejno,

struymije sig ve alty Colle manne:

de zepene; to nie bedie de hta dnie epeterone.

Jager zdoje is, not Sisminie wedzergezoj rillite ageturk o
ciecuy, v skretek ktorepo i stoje in tok salke evotobo suzglednoste,

ile vier polyale prese dopro; o rova anim pilo exponenimum prey imaj
operatura.

V skretek ovych szaros obliczenie w bydani zdeinem od
dominanie zosadni selte.

Colkiem novigo olli semie jednok urpmegolish zipairika tarcio varyturupo ipain zgranovych zipainika tarcio varyturupo ipaini zgranovych ipaini zamieny ai tru durini tu porstoje u mi zostole jimse promane golije navet dla porov dorionatych mie zodotano typh rodumkom urphonać pot przyjenoje tenze intelestranych a znow metory Karwello mie moża zastorowi jiseli ota zgrzenini por mozem! who możeny się apodzierać y onegnizace joselo resultator przynoj mnie w do amiemowii tych wielkoni z temperature - potora tom w desember prob można slisyć.

I totaj jish isez zachoviji stala objetori, irrayotki mely porostana pometry snie podrbne jish jet peryn stomeka povijenymy t. 2m. melij cząsterkove i mely licery romej. (iris to solnah irryotkie rotzemie s demental may six jorihon s tomuk a' a temperatura v storuke 162 Wize rovnick natizemi styrene tarso very trango, Ny. Axy = 10 (xy) 0 = 4 2 creso crymho tok somo jek

(pxy) = no (xy) - dvo!

(pxy) = no (xy) - dvo! $Axy = y \left(\frac{2\pi \alpha}{2y} - \frac{2\pi \alpha}{2z}\right) = \alpha^2 y_0 \left(\frac{2\pi \alpha}{2y} - \frac{1}{2z}\right) = y_0 \left(\frac{\beta}{2\alpha}\right)^2$ Intoj jednoh tarcie mi jut nieralinem od est gestom joi prez garach,
vige nostopi dan prem staty cis normin Imiermore or senteh portegenera bredned odly bui ugstruck and temperatury. $dy = \left(\frac{3\eta}{3\theta}\right) + \left(\frac{3\eta}{3\eta}\right) \left(\frac{3\eta}{3\theta}\right)$ To just spokujum, k roz merzehnoù termisnej a 24 moina blisge de helke view juile inanny immunication toren wungtings of the cisming is scislivori vierry of 30 = 34 to Enoung te vortozie the n.p. dla Donrole i stern dla ktorych otrogranjamy n. als 0=200: des = podres jed v resystom:

Wize pohasuje sig hompletne franco nesses formulti satu " sesady" Vid Wals - Clarina, t. za. ie mi moins agrtunk možeć jeho hel springtych. was to go wheny to just 2 organisament worker ale server dokonstych, de tretej spresnoù zatozenia i necepcistosie wyste prije Gule jume jaskraving. Wolonym iggn vrociny jimme do an omorium winostow a tej przy czymy riż nosuwoją cyri. Nolia loby to jimse observery pomore o troys kind. Joque ktory or limeget vonewarde storal six nybectoral tory kin cicy no postani mysti okingrajsk Ing waste caggle uz grami kongstanie ze zavígek, nigden stologues storios etris a victurio Er (whorenge un stufara) nie dez jednak whoder with specy o'ne rostreg semi do on sprawion' wwog. Joger spolsi ie one v stam u thy ju znamin mnigne i stare ing upodovoć winig na postavi mej tungi.

Whenty and trongs well stely he gidnok juste minig jest up kon and,

kinty and trongs well stely he gidnok juste minig jest up kon and,

the dods man juster o redoog nie zoodoon eig navet jume co do

florrysh rangs of ktore to trong trube nodor.

Videngen promber justoch totaj korzys truejsen jestierny sytrangi
mir vober viewy toj. ie manny the per truejsen jestierny sytrangi
ogshoosii i prototy - dre nie doktadnie spetnione- joh pravo dolog a

i lotta vo da viesta ist os dinsigs.

A te regulorusori (dot and wyst innowers) v sprid engeline radaralje,

wy ho dra e agshoosh todario the the same jennas sig note in druig page;

wy ho dra e agshoosh todario the the same jennas sig note in druig page;

romman

Richard of the wint trindrune was silved , 2 story uptys, storing. pomijeje po jeko mote: albo tie sport portai sie na maro Marvella D, I = - 12(Xx+ /7+22) widing storys: Layjungs two is egitualit golsie h = tapel U = The dx dy dr... Jehldzeyd... Justi agstucké pourage in lite perny induity payay ranarge to sity ar pevnym dottotusni moly oby bie kedsie miene przyjąć joko proj. do vyskylena, wife U joko frakeza drugezo stopnia potreg druget, Mago so ordity groligo i drylys woon doje the to when the suriana energy pot bydsi wing

i drylys woon doje the to when the printer the suriana energy bydsi has very tak vielko

uniani energy kinth. 2 at collarate iniana energy bydsi has very tak vielko

ciepto storier planes atomas

ciepto storier planes atomas

ciepto storier planes atomas

ciepto storier planes atomas

cresportation of survey atomas por and pidnosomme wyrosyl storie

trypothy sin:

C = 6. Crem vijksse wyskylense esestank poro obyt sfery posie sity moine uvoini 29 pagorajoralne do odstopose, ten musio deltadnie lyden siz y to soit spendrato to pravo, wife roming nejvirkness, moins orchiva a took printethe 1). Iton my's nojminigny is in pet stomony, be to pray rome temps them muse insi oforiedni viden pydkoni, sige i systesienie mosy soften. 2). Itin maje mate sarton objetin atomory, viza mate osteytin stomore, pomissi tan sily o may obybi wojy holy smorum.

Ta regula spravdra sig z sedstrægge nejsupetnig z drovi oderenn jek to wkoreje norts prijero telliska

Wythe exion domorous jenere lipis wydotnie si, v to trig tignetor

Storgmille grating ryvodsi tokie pravo Koppo-Nermana co do dyta

Bosingo zviorkos chemismych w the sa sproof joh pravo dry Pott.)

nie Momorzy jednok vrole vreme tutoj turba obieroi dla dele pienostin

englini inne vartoni ciula Fering "p.

anizili wtedy jely one og niceripane nigotzane.

Wedteg moj je zdanie warzeje to begrindine enou de na jetuske
pol odo prajjecio anymetry sit dri stojeget, whethe tory sita & jet you

zding ni tylke or ortegtini ngstunk de tie or orientay: ich reglydne

zding ni tylke or ortegtini ngstunk de tie or orientay: ich reglydne

zorient ki uruskor. Oto jinur vigus bydning moist.

the top of the man imych polar freght and stolyd so pravious rowne sero.

Latherland probably opició morania resodante and stolyto

tdeji sis is jedyna priba resturran topo pojé hint, do det stolyto

votala podyta robra pan Jutherlanda, to oregoisin mos pod

rotala podyta robra pan Jutherlanda, to oregoisin mos pod

rotala podyta robra à la Va du Joals.

Topravieje Alle tilka tydor wjeg rommowemi mozny tok wnorkowei:

2 toriendrenie o silmke wynho:

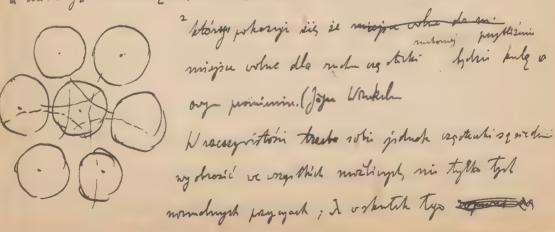
p+ === RO + \(\frac{1}{2\in n^2}\)

for Em p mess summe momentor (ilvin mohn) wymianionych

podkoni seks neglydnych obtodorych v incernole, on drawne

migdy regitiskami podas Idurinia podras podroni casa. En moring sortypi' mass No John N= ilon 2 drein Wprovadraja sredneg vartori ja sibni zderse A, i drug mobodeg t bydrinny je drok milli: a votani aj 2 c jr= = = = = = = Oltm. Zy= Nj= = = = tuymijeny: pot = 20 1+ 1/2 67 Sodi tuos o vyvienie sate Allogi vartori sidnig dry); es de tegs Litherland to same estrinie who jet jogu v objeviedni rochmuke dla ciury t.j. ie $\lambda = d-46$. Just to was odnionen, just ystaviany sobie wystering tucki w popyad

nomolnyst i vyjetkier jednej mhomij; udsieleje im podrojne prominie a morajage ruchong og stinky johr mult strynnigerny sysmuk



stryna inne warton, de sanse jense pryslizanie podobnej vielkomi. Detoriejs- d= 20 = 1+ 1 v-vo tregnejeg veni moiejs- v-vo jeks moto: Juthusante aparedin min jungtorea explicite sup romania, ale zymbole Ho vornovernen Hy do $p = \frac{3r\theta}{v - v_0}$, co prége na preverein esque, la $\frac{\sqrt{2}}{3}$ I tijo vormanio stregunji się zniguh mirodny spiknymikiem voznenduriki i mistroniq i: K= 1 Rp x2 ktory jednak zujetnie nie spandra się v recegnistości, oblisone wartości sublivorii se villa driengt rasy 20 mole! I therand the mysling pononic 2 trients where promise orgatically superior strong problem atyring and temperatury, ale oblinance i hipstery pipo so just problem atyring Notino jeven more sig make lakt, it fign a the comment to ince tuyunie nythoday - intim ty majer tim tim ton Joger propage ; since by trynoc expetin to same romanie i sin sisty, postie some police tythe na immyn, 2 deze mi sie mmei If way, Juli jednok to romanie just some file ciery, jek whity Sutherland yttomacry sprziystosi postaciowa?

mic

I to me Jet - aware a tresion a delivere of evital a sime Alls the ne. not to such in the se us as an exercise in the state of the s edig To i i i i to dia i of the in a fine a ing in a in tedris ity a a is mittered. iahn a sit stoly min. 2 minor ser. " jag orgin minist son Morenie sie - Miliar avier, wing " - - we i me. Maindy solo a tomolome to a no to romanie os-den de de di une sinti-com of Lagaren . I will me adiose to many with the contact of drie mon resultate, institution and a mile - recognisting with the same some some soften colorens o do 29 till lake in 12 your . 1 :0 30.

Do my tom was a week for a for the same of it it is a casic menne . Aghi. odlyjon dans since Edgi ei vige nopre om s' i ic preserva ment og her fjær gan 20: tipi iz lag it il a a in in the same in a series i 20 morar & ton interession - indicate to a marketiment to 1 20 months up north a la i ma a mos a or . . i i'm much irm who have in it is a to the second second tant trongerous as a star of a star of the in it is a sure of the sure of the second of if const dop one tolker directal and me process gety bordes don't in a do not seeing into wet down olly is money surger on it. . the by copy in it - t - t. . 2 ... present : Joseph ie ity og tylno den ! monciente à i consert toyl : préventem proc. in a simulation I or it to the september reptertant If solice one sity in to be it Gold in a de to in town wine in word of rely - they is more a sond a.

jasuriaj sig idnak pem ogtalivosa, an jestesing de tegs takse anseni. tori unt my. Itoring totale lair o some iliga teorge sa tor . . . to type win ; by toby reery made young soing note gage cry much on no king tours musitally tolese 20 hodrie w india za tran a stand ni se smko croci. Nelizy bowiem position is iam at y thiseam me iessere de las isque à l'horare il morter transfir à me sietis. Joseph Trednin program rester a ston one rong . I in to de silving on the time return the light or on the seckage. Kelvin a south noderverajem i tren eyel d'iso uses meter à 200 The asser was now a the soj smije sig tokiemi . ktedomi. Jush igitischi og holomi, to porteje A. 21 eguilatural vomo men an ily, tada sig 2 would into the state exitoring some s sty morn 2 12 oma 2 siedem i tu system me insido to. regularness, bes przyjona angueltryi w espotukah składajowych samych.

Z drugis strong przyznać nalisy że homio innych zjaroick nos i tok juis shot and do prayje is sit i umberyth, pre deverythin zjastrko chemicane. Chemicy, mortge o roznej wartaros is pienesther they to same vider solow seem of smil - naivone representering proces havyki o supomija s nevyristori toku sity tiermstove. Determon te priscia vijed ve frang moten otgeng v nog thory' approvag any foror; vystario on sobie has porier dui tuli, there ma pudstariai capitusky, poune obręby, empfindliche Dezirke', stire no siehe sprieroją sity swyble nieznarsne ale przy supetruje obliżenim nodanycz vielkin, tok ie dva atomy where polging sig i utvorg stoly komenlek, zivil: ich empfalliche Derirke sig prectingte: Ottim pokazuje tis na prophtodach, ie troga jije zgadza się z dośrodczenia az drugily strong Homeway ie nie możnoby strugmai troys dyror. na porstovi sit któr by byty tylko p. 12), bo stroky jiseli n. p. slori ageturch donotomorph got man prevois nod iling john tomorph to wornier muristely by Adhar worths , bis nestuck try, extery on Armonyl, - is derived amin mie war sprace ind 2 dos inchesemen.

Juili sig mi prayjmuje it trimbarych a rest, tradus tokar ortic mystimacaji, co wtośćiwie epowodowije nogto przejscie ze stam cirkleyo do starm hystolivnego pas i prukire toplivoria. kurepnisora. Trayjmuja anymetrys sit totro 200 pagas ie pray the so to samy temperature rige pro ty some energ bentysny, olia moze istine while the o virugit wortoni funkcji U, jeden golsie on są niergalomni vordes elone a druge gedsin mega perne kienneki (krystet) i place te niceplanosi evitej utenju ang puer mely m'igalam aget de pres co et prosteje nity vierte ujene ktore ograminoje milu ugstenek. They light terreprize orparada they emiamie U whathe oriente ji ori - rovnici jeh czek utejone Akrophus wywiede zmiani U whatch sit wtorkowstyl ?! to to hipsters premare the fact is intring hypotoly with t.j. satt en kryntaty ktorykeny favni tomperature moje torin z pomini il tego tun tokin amigio in predstavina moder remin mose prepostaving jeh lipk is cinese, benouteren Atok mate jeh lepkie circae (ale zacho nije piner wnelkin time) optycem stoseinoni struktury krystolicznej. Dopiew przy prny orrowny temperaturer naroz (podrojni caternain) notaje in top podrojni caternain) jut påg some postonicie pereggi regte utojongo

Jokie Varman ktorem zarrdnigeramy vide nodavyczaj armego motorych varman przejscio ze sta cirklyo do stolego, postuje postujemnji bipotarz hiemskowośni st i wnioskuje z niej ie mie struje iaden prakt kryty any dla prumiany, promieroù v toke prakin vivororenia eiste ciesto utejone i zmiana objetosie) ate musi stolejo vo, ani tysko eiste ciesto utejone i zmiana objetosie) ate musi stolejo vo, de prompe stepnie co produce zijanisko mieroline, jesile sie przyjmnye ie to ostotnie zolej co prakt og zjanisko mieroline, jesile sie przyjmnye ie to ostotnie zolejo totalnie od orientosuje ceptuch. Raeceyriscie dorustosa prakt solejo do wortosia do voleto su prakt police sectoria do ve prakt opisko do wortosia do volejo.

Traka się ta storać jeh najmoslanje o dolsze notaget dojnioderolny.

V-Ly

Ni mordismy ved jissus o cretark stay h d. sw. us besportacionych.

To eo swylle tops norva obrislamy sa tylko aprejety knystatiene,
wite mohrs knystahisme jak up. metale s swyllig formie. Iniv innych
wite mohrs knystahisme jak up. metale s swyllig formie. Iniv innych
wite mohrs knystahisme jak up. metale s swyllig formie. Iniv innych
withour jak n.p. work while sevice its. He mais no minister som
winych esat. Ale istnigi Adrie hillo was elementarych, benn town
jednolitych store mais weinight store

Nodky & tropiego vyrożenie Jammono noleży te robi vystarie jako oże se pod Ato desom (untir kielt. Fle highiet). Nie wienog zig zosadni so od clesry, nie moję ża dnie struktury ani kiernekowoni, ale mosto overstowa stoko zię tok wielkie żej nie moję więnij nakrać tokie orone towne stoko zię tok wielkie żej nie moję wijuj nakrać zagotuski) jni nabrać orienterji regularnij. Jakie ciola istotnie nie moję oznacronego pranktu tophycis. One mizkanę stopniow przy ogranim i nie ma iadnij tempuatny gobie by nastą pilo nagle prostonizcie czyske utaj orego.

logt - James Krevis

Morige & terry' kind, and statyt mi harethy pouring the symbolismic aby wherein no do'ina deservine moderny regimi warne i intercorge a do do dyfungi metalor statyt.

The ma ziewisha hteritoz wyra'ning premariato za kin etyrung noture wrong thank wat statyt jak fakt zie one dyfundaje w sielie ze snythronia totog moine naret alekt adni minenyi.

John Roth his to potant przy cionat stry otovin do statyt jak jakt w porny tupu atrone staty in who with the postanyi coty aget w promy tupu atrone ai do 30 dni, majt się przekować potr analize dlamine i zie staty w porny tupu atrone wiele si do 30 dni, majt się przekować potr analize dlamine i zie staty w porny tupu atrone.

Tentana kolka vortini dla apotropomika dyt.

Jest to inpline notwooder with try kinet posioner synthis most we hoppion in tokar tak vilkin, is open soop are progrege iredning romovage i wydry'g dolis jok ug shuhi ciercy.

Spring pohorot more in proces ten wyth bordro layer press pressny pressny press vilkin cis'minie n. g. ? b - In prythome do sibii i poddam vontor worter of the process of the process of the process of the police.

I prontos totish metolor itim trong words alivier moine otrogner dies prese same hompresse ber uptyou ogramia.

Moine vige portoner store florete v distorny main:

Rerror \$21.

prestyrone thetog omariane teory sinctyrones motory - poming org programme thetog omariane teory sinctyrones motory - poming org steriore gory destruct - to hydrin sig nam y dans do mais is plan nie byt t shift oblitym. Ale mysle is a negotyrone resultaty majos sovje vartori i rovinisi tei snahi sapytamia, ktore and sroje vartori i rovinisi tei snahi sapytamia, ktore and przy omorienia visnych haroty musickimy mmiesz vroć, i ktore nam przy omorienia visnych haroty musickimy mmiesz vroć, i ktore nam przy omorienia visnych haroty molicy woici sa negovernogimy majoricy; i w ktory symmen nalicy plovnie pracowai. rospores', i the mysely is to quiencie) displacing do voisinging unitation rospores', i the mysely is to quiencie) displacing do voisinging unitation anisili is trongi vierzy. Alle Harris Nadrungas soi un both, is do by preduring them rogrome dreini dalongs motingate disinderly mionomicis co do statest spignything hypototosi hypototosi instructioni) prey landes busportes orgal (mie propto hypototornych, te og ber wortoni) prey landes ingritude turner others, dobre tototosi mothers, he diar temmens the miskil turner others, dobre tototosi mothers; frey ha call stolyth.

0 000 73

$$\begin{array}{c}
 148.75 \\
 1036 \\
 \hline
 444 \\
 \hline
 1080.17 = 63 \\
 \hline
 -00045
 \end{array}$$

Visevodnitos cieplue proskow muni rolice od stato johomi gozu - tecrojecy i or Tung spry luffer. 20th of coinsund. Noina whi to uystanic a proflering por obrosem engles blosset o frukoni podobni jeh esamla proseku: A previole ente stolys

K " gern I worken I h db = K # db = \ (Mm) db Solls + E dbg = M dbk (StE) $\delta + \xi = \frac{1}{\kappa} = \frac{1}{\kappa} (\delta + \xi) \qquad \frac{\delta}{k} + \frac{\xi}{\kappa} = \frac{\delta + \xi}{\gamma}$ It is the wyleden of the tolego, 20th E= 1-1. R + 1-h = 1 Workship who temp. emount sig to na: Star 5 alts + (E+2y) dtg = (8+E) off F+ 1-fx + 3/5 = 1 $\int_{\mathbb{R}} + \frac{\varepsilon + 2y}{x} = \frac{\delta + \varepsilon}{\gamma}$

N.p. dla parietre pry Ho-. 2= 15 cm y = 1.7. 10 cm Juich the to praythinis: pr= 3/4 \$\frac{1}{2} \display \frac{1}{4} - \frac{3.4. 10 cm}{6+\su}\right] N. j. S+ E = # 0 1 mm $\frac{1}{3} = \frac{1}{16} \left[\frac{1}{9} - \frac{3}{9}, \frac{10}{10} \right] = \frac{1}{9} \left[\frac{1}{10} - \frac{10}{10}, \frac{10}{10} \right]$ $\delta + \Sigma = 0.01 \text{ mm}$ $\frac{1}{2} = \frac{1}{2} \left[1 - 1.3.10^{-1} \right]$ StE = 0001 mm 8t2 = 0'001 mm totaj d byloh 10 rosy vighne zatu jui mi možio zastrooval takich olli sin, de atted zasymo si granico golin pomizi ktorý prevodnictvo bydni sig emniejs zato proporcy on dmi do cos menos gorn, a nie bydsin 2 deinem od gruboni 200m (just da og < 0.001) i swimie prosku

: 2 1 Jaka jut nedne gedhrir dash maka agi kini dom hugitunh? fre 2, 4) = A & - h(h, +0, +w) du, du, du, /// A 2 - L(u, to, n,) + (u, to to t) du, du, du, du, du, du, 1 (11, +112) -+ (1, +12) + (1, +12) 2 = L(V, 2+V2) V, 2 V2 sin of 2 do do do do dy dy dy. VV2+ V2 21/6-Judi pryflænie: sudne pydkor d Ill sit, sitz dt, dtz dy, dyz tel 1- as dy

Just + F- C-- -----,) --- 57 -11=

I The w Partition of the same and the same 1 1 1. 1 9110 -Emelsye možna uvožeć jeho rostvory, knjelki drobne u nih zar atrijeko molikentz. Dyfrsya. A zation kropelhi same jako gas. to RO o to same $\frac{1}{p} d\mu = -g dz \qquad p = \frac{1}{p} \cdot p$ $p = p \cdot 2 \qquad p \cdot p$ a, zerov molik. R & storm kn to hadie wouch 986. 0.0012 = 10.2 m = 10 2 m jereli n.p. S= 0.1 ju as 10 molekutor extens stale garava - 10.2 m olge jut i Imm vysokom p pravi zero pieli jidnok 5= 0:01 ju to bydan p=po e um zaten ozgotuski tej vielkons Foller" pure dodevanie sil to. polya na ten se sig sminia Tahovalore i se omeni sleveje v

Rudskji v ottotinh latech affort song prec or ktoget wartigs materialy ug teorya carban aleni 2 mondodniemon Good porgion fit to severta 2 nergen prac, a storych Rudski werdje maten oty ung teorys ugarin zienie, trong co dolozy wyg wyrany 2 ansoight soto petodes mi moine moine place the strate interprete soto petode to me moine moine proces jeto to petode interprete sometime to the presentation of the strate of the strate of the sole of the strate of the sole of the so tigo rodroji zjeniskeh, petrie drodri o stromboro dlegie fele, nie wehodena rachet, ale na morstvovanin ich i na vityari cisnomit forugh voine of majestoni v Herrok poromy, I some specific star some of principles specific star some of principles specific start some specific mynde, in fale portoja worketh destudys film flear hale she Ruch degajqy który postanie vskutch vtraginienie v jednym prukcie nie kjelse sig rozeho dist rommiernie ve vrystrich der kiernekoch, jete fale keliste jih snodkach izotrogonych, tylko 2 jegdhosiez ving v rtingh kiermkech.

Oblivanie hotalte povimbuna fali bedain ne Artad & done ingri Deliprovde aboutong i # Time povierschnig obortong, letorej kestellt skreibong jut pra romanie backo skrugthorom to Mis stopnio. Hit moja janu i drividamia
Nie vorporez draje jeme drivia derokemi denemi eo do vielkomi owy de not ayuntor, Retate nie moins sites badans doly and hotalt org 2 ob zir er de verych vielhorni Zichen myhonyvinji gotate kodisti.

de skunge over vormania

to rockmick na postanie organi, vernetiene store eig verhoder appellering probleg de depridlig fold i zersony trung we chodes if sig 2 python's provint polarging trym 200 csnie wykorą (nonig sycy pologie! Jedowe orom whapoline in what is jounted in they (am -) whise it who that we want the come of the start of the come of the Lordy promote them (2 of the promoter orther) does a vige thank puntle for the formation or the promoter is in dely come of orther promoter in in dely and agreement of the fole of the fo (joh of from) en trosyonalue (joh pan switte) tylke haraktur mierenego.

4 par. A THE PARTY OF THE 51. The second

131

Le mornent home est done un plumoin fined d'a tet plu ser ille que le monté de les que est plus ptête. Le point le plus insuportant est la réglore de phimoni ; de molliers de pest, ont été ixamines et dans au cun cas on n'a on une fait, en suspision qui n'affeit par l'enmement l'attituble, com en interneté adinaire, en égant à la proseur de la potible. Internete n'a pais d'approne mais le meture direire solonts, logende, les particules de mine proseur mais le meture direire solonts, loquelle, gornes, sont avinnées de monoment per dépunts.

gornes, sont avinnées de monoment per dépunts.

gornes, sont avinnées de monoment per dépunts.

Vitterses ces quelque fais especiales mondres, en considérant qu'on pourrait time de la loi des grands nombres, en considérant l'extreme pet time des melanis.

1.1.4- 32 - 3111 9 7 1 2

#) = *, · · · ·

William was the

$$p_{\mu_0} = 0.39$$
 -36°

$$p_{\mu_0} = 0.39$$
 -26°

$$2.08 -10^{\circ}$$

$$4.60 + 0^{\circ}$$

= 0916

$$\frac{14895}{214.69} = 0.6528$$

$$\frac{148.95}{214.69} = \frac{1431}{0.8413} - 1$$

$$\frac{148.95}{214.69} = \frac{3318}{0.8413} - 1$$

$$\frac{10.6938}{0.6938} = 4941$$

$$\frac{d\lambda}{dl} = a. 10^{\frac{1}{100}} \cdot \frac{1}{100} \cdot \frac{1}{100$$

$$X_{x} = Y_{2} = \frac{3\xi}{5x} + 4 d$$

$$X_{y} = Y_{2} = \frac{a}{2} \left(\frac{3\xi}{5y} + \frac{3\eta}{5y} \right)$$

$$Y_{1} = A \frac{3\xi}{5y} + 4 d$$

$$Y_{2} = 2_{y} = \frac{a}{2} \left(\frac{3\xi}{5y} + \frac{3\xi}{5y} \right)$$

$$Z_{2} = a \frac{3\xi}{5x} + \frac{3\lambda_{y}}{5y} + \frac{3\lambda_{z}}{5z} = a \frac{3\xi}{5x} + \frac{a}{2} \left(\frac{3\xi}{5y} + \frac{3\xi}{5y} \right) + \frac{3\xi}{5x}$$

$$= \frac{a}{2} \sqrt[3]{\xi} + \frac{a}{2} \sqrt[3]{\xi} + \frac{3\xi}{5x} + \frac{3\xi}{5x}$$

$$= \frac{a}{2} \sqrt[3]{\xi} + \frac{a}{2} \sqrt[3]{\xi} + \frac{3\xi}{5x} + \frac{3\xi}{5x}$$

25 2 in = E[xnot xnow-l) + (l-1xn-xn-1)] = = = an+1 - 2xn + xn-1 $\frac{d^2x_1}{dt^2} = E(x_2 - x_1 - \ell)$ d2x3 = E(x, - 2x3 + x2) d'x = E (x5 - 21, + x3 (1 x n+1 = 2 x n+1 = 2 x n+ $\frac{d^2x_1}{dt} \frac{dx_1}{dt} = \frac{1}{2} \frac{dx_2}{dt} + x_1 - \frac{dx_2}{dt} + x_2 - \frac{dx_1}{dt}$ $\frac{d^2x_1}{dt} \frac{dx_1}{dt} = \frac{1}{2} \frac{dx_2}{dt} + x_2 - \frac{dx_3}{dt}$ $\frac{dx_1}{dt} = \frac{1}{2} \frac{dx_2}{dt} + x_2 - \frac{dx_3}{dt}$ $\frac{dx_2}{dt} = \frac{1}{2} \frac{dx_3}{dt} + x_2 - \frac{dx_3}{dt}$ $\frac{dx_3}{dt} = \frac{1}{2} \frac{dx_3}{dt} + x_3 - \frac{dx_4}{dt}$ $\frac{dx_4}{dt} = \frac{1}{2} \frac{dx_4}{dt} + \frac{1}{2} \frac{dx_4}{dt} + \frac{1}{2} \frac{dx_4}{dt}$ -in the - Aut in - xy in - in the tent - Know the 1 dl (21) 1 x - 1 (x - 1) (x W- 1 de - x - ment -] + denomination + x ment de l'anomana de l'anoma

DA XX

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11/3

$$\begin{aligned}
\partial_{x} &= A \int_{x} dx + dx & dx & dx & dx & dx \\
& \partial_{y} &= \partial_{$$

	dP d#	-25° -15° -5° 0° +5° +10° + 15° 0.3095				9-762 8-548 1-219=2
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	0	0.240			671	237
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	10	0.6095	-283	9.14	760	0339

$$\frac{7}{2} \cdot \frac{5}{283} = 3500 : 566 = 0.0618$$

$$\frac{7}{2} \cdot \frac{30}{283} = 105 : 283 =$$

$$\frac{4}{h_0} - \left[1 - \frac{282}{k} \frac{1}{200}\right] \frac{1}{k}$$

$$\frac{282}{27} \frac{1}{h_0} \frac{1}{\theta_0}$$

$$= 760 \left[1 - \frac{1}{k-1} \frac{1}{\theta_0} + \frac{1}{1\cdot 2} \frac{1}{\theta_0}\right]^2$$

$$- \frac{\alpha(\alpha - 1)(\alpha - 2)}{1\cdot 2\cdot 3} \left(\frac{1}{\theta_0}\right)^3 - \frac{1}{1\cdot 2}$$

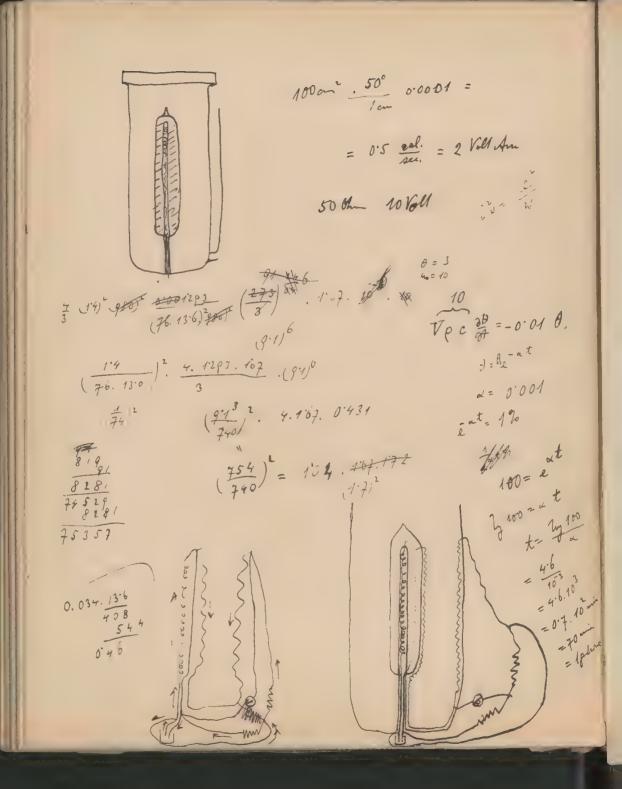
$$\frac{20103}{4550}$$

$$\frac{2950}{4550}$$

7 . 5 1 = 35 47712 0.001181 0.0 1124 10.106005 45 179 0 = 0281 35 0'742035 502533 2405 0.05417 . \$ 36.7 0.37 10 17 0.05066 135425 1855085 A105417 33856 309181 0.0 75 88 - 0.37 102 7. 37 62 k 008315.76. 519 75 478205 0.30918, 110 0.72844-760 519191 539908 131 42 1.01354 44 553614 -0.48551 0.87803.300 579621 2 . 000033 . 49682 10.980 52,3.1 24362

106

76



$$\theta = a \int_{-\frac{\pi}{4}}^{\frac{\pi}{4}} \frac{dy}{dy} + b \qquad | x = 0 | d = \frac{\pi}{2}$$

$$\theta_{1} = a \int_{-\frac{\pi}{4}}^{\frac{\pi}{4}} \frac{dy}{dy} + b \qquad | x = 0 | d = \frac{\pi}{4}$$

$$\theta_{2} = \int_{-\frac{\pi}{4}}^{\frac{\pi}{4}} \frac{dy}{dy} + b \qquad | x = (\theta_{1} - \theta_{2}) \int_{-\frac{\pi}{4}}^{\frac{\pi}{4}} \frac{dy}{dy} + \theta_{2}$$

$$= \frac{2\pi}{4\pi} \left(\frac{\theta_{1} - \theta_{2}}{\theta_{2}} \right) \int_{-\frac{\pi}{4}}^{\frac{\pi}{4}} \frac{dy}{dy}$$

$$= \int_{-\frac{\pi}{4}}^{\frac{\pi}{4}} \frac{dy}{dy} + dy$$

$$= \int_{-\frac{\pi}{4}}^{\frac{4$$

Sciena zimma u kontokiu z para worke, justi ny. naz vjuszcramy do cylindra.

$$\frac{\partial \theta}{\partial t} = \frac{\kappa}{c\rho} \frac{\partial \theta}{\partial x^{\alpha}} \qquad \text{Warnink forg Many } t=0 \qquad \theta=0 \quad \begin{cases} x=0 \\ x=\ell \end{cases}$$

$$t - - \theta = \theta, \quad |x=0|$$

$$\theta = f. \left(\frac{1}{x}\right) \qquad \frac{\partial \theta}{\partial t} = f(2) \frac{1}{2Vt \cdot x} = f(2) \cdot \frac{z}{2t} = f(2) \frac{df}{2z \cdot x^2}$$

$$V_t = x \cdot 2$$

$$\frac{\partial \theta}{\partial t} = \frac{f(2)}{x^2} \frac{\partial \theta}{\partial x} = -f(2) \frac{\sqrt{t}}{x^2}$$

$$\theta = \frac{2^{2}\theta}{2x^{2}} = + f''(2)\frac{t}{x^{4}} + 2f'(2)\frac{\sqrt{t}}{x^{3}} = f''(2)\frac{2^{2} + 2f'(2)}{x^{2}}$$

$$\frac{f(z)}{2zx^2} = \frac{k}{c\rho} f(z) z^2 + 2f(z) z \qquad f(z) = 2 e^{\varphi(z)}$$

$$f(z) = \varphi' z e^{\varphi(z)}$$

$$\frac{T}{2} + \frac{1}{2} = 0$$

$$\rho' + \frac{2}{2} - \frac{c\rho}{2kz^3} = 0$$

$$\theta = \frac{c\rho}{4\kappa x^2} - 2 \log 2 \qquad | f(z) = \frac{e^{\frac{c\rho}{4\kappa x^2}}}{2^2}$$

$$\theta = A = A = \frac{e^{\frac{c\rho}{4\kappa x^2}}}{2^2} dz = A = \frac{e^{\frac{c\rho}{4\kappa x^2}}}{2^2} dy = A = \frac{e^{\frac{c\rho}{4\kappa x^2}}}{2^2} dy + \text{unit}$$

$$\frac{\partial \theta}{\partial t} = -e^{\frac{c\rho}{4\kappa x^2}} \frac{x^2}{x^2}$$

$$\frac{\partial \theta}{\partial x} = \frac{e^{\frac{c\rho}{4\kappa x^2}}}{2^{\frac{c\rho}{4\kappa x^2}}} \frac{\partial \theta}{\partial x} = \frac{e^{\frac{c\rho}{4\kappa x^2}}}}{2^{\frac{c\rho}{4\kappa x^2}}} \frac{\partial \theta}{\partial x} = \frac{e^{\frac{c\rho}{4$$

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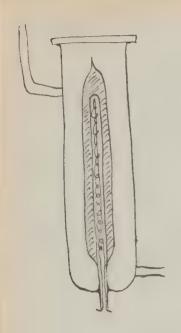
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$$\frac{\partial}{\partial t} = \frac{\partial}{\partial t} = \frac{\partial$$

ij. 8 mm Hg = \$0 8 mm Syuring



iding

$$K \cdot \frac{30 \text{ cm}}{1 \text{ cm}} \theta^{50}$$
 $K \cdot \frac{30 \text{ cm}}{1 \text{ cm}} \theta^{50}$
 $\frac{30 \text{ cm}}{1 \text{ cm}} \theta^{50}$

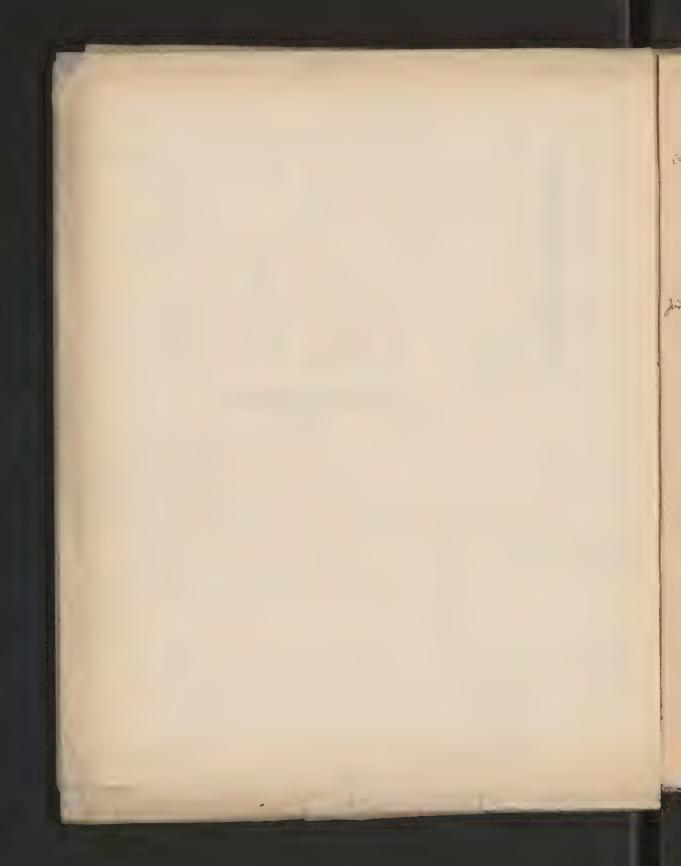
1 Nolt Augus = 0.24 Parl

$$i^{2}w = \frac{e^{2}}{w}$$

$$v = 20 \text{hm}$$

$$i^{2} = 5 \dots 0.15$$

$$i = 4 \dots 0.4 \text{ Amp}$$



8 ún 120'g / 8 nº 88 y 2'. 5 2 2 20. 60 2 i= El mo cm $K = K_0(1+\alpha t)$ $\varphi = i^2 w = \frac{i^1}{\lambda_n} = -\frac{\partial}{\partial x} (x \frac{\partial \theta}{\partial x})$ 1= lo(1+ pt) = - dk dt - 1 dx $= -\frac{dk}{d\theta} \left(\frac{d\theta}{dx} \right)^2 - k \frac{d'\theta}{dx}$ Juil Tryllium K= Lo 12 = - 20 (1+ 78) Ko dry Wyerrong pryblosonin: === -1, 10 de 3 8 = 6 - 12 x + 12 x 4 hich b. -1 $V = \int \frac{dx}{ds} = \int \frac{dx}{ds(1+1)\theta_0 + \frac{3i^2}{\sqrt{n}}(x-\frac{3i^$ = 10 1-17 ix

$$\frac{1}{A} \int_{0}^{R} \int_{0}^{R} \int_{0}^{R} dt = R \int_{0}^{R} \int_{0}^{R}$$

$$-(1+\alpha+\beta)^{2}+3[1+\alpha^{2}+\beta^{2}]$$

$$=2[1+\alpha^{2}+\beta^{2}-\alpha^{2}+\alpha-\beta-\alpha\beta]$$

$$=[(\alpha-\beta)^{2}+(1-\alpha)^{2}+(1-\beta)^{2}]$$

$$(\frac{\partial u}{\partial x}+\frac{\partial v}{\partial y})^{2}+\cdots=(\frac{\partial u}{\partial x}+\frac{\partial v}{\partial x})^{2}$$

$$\frac{3w}{8t} + k \cdot \frac{3w}{32} = \frac{4}{5} \left[\frac{12}{3} \frac{3w}{2} + \frac{3w}{3} + \frac{1}{2} \frac{3w}{2} \right] + k \cdot \frac{1}{3} \frac{3}{3} \frac{3w}{2} + k \cdot \frac{1}{3} \frac{3}{3} \frac{3w}{2} + k \cdot \frac{1}{3} \frac{3}{3} \frac{3}{2} \frac{3w}{2} + k \cdot \frac{1}{3} \frac{3w}{2} \frac{3w}{2} + k \cdot \frac{1}{3} \frac{3}{3} \frac{3w}{2} + k \cdot \frac{1}{3} \frac{3w}{2} + k \cdot \frac{1}{3} \frac{3w}{2} \frac{3w}{2} + k \cdot \frac{1}{3} \frac{3w}{2} \frac{3w}{2} + k \cdot \frac{1}{3} \frac{3w}{2} + \frac{1}{3} \frac{3w}{2} + k \cdot \frac{1}{3} \frac$$

$$\frac{2}{A} \left(\frac{1}{2} \right) = - \left(\frac{1}{2} \right) + \left($$

$$R^{\frac{2\theta}{3\alpha}} = \frac{w}{f(x)} \frac{c_{+}}{c_{+}} - h^{\frac{2}{3\alpha}} \left(\frac{w}{f(x)}\right)$$

$$\frac{iu}{\partial z} + \frac{1}{2} \frac{\partial u}{\partial z} = \psi(x)$$

$$\frac{r_1 \partial u}{r_1! (r_1)} = r_1 \gamma_1 x_1$$

$$e^{\frac{r^2-R^2}{2\mu}} \frac{\partial u}{\partial x} = f(x) \qquad e^{\frac{2\mu}{2\mu}} = \frac{2\mu}{x^2-R^2} f(x)$$

$$e^{\frac{2}{3}n} = \frac{2n}{n-R^2} f(r)$$

C, c and totych, define Oth, right, cress! temper!

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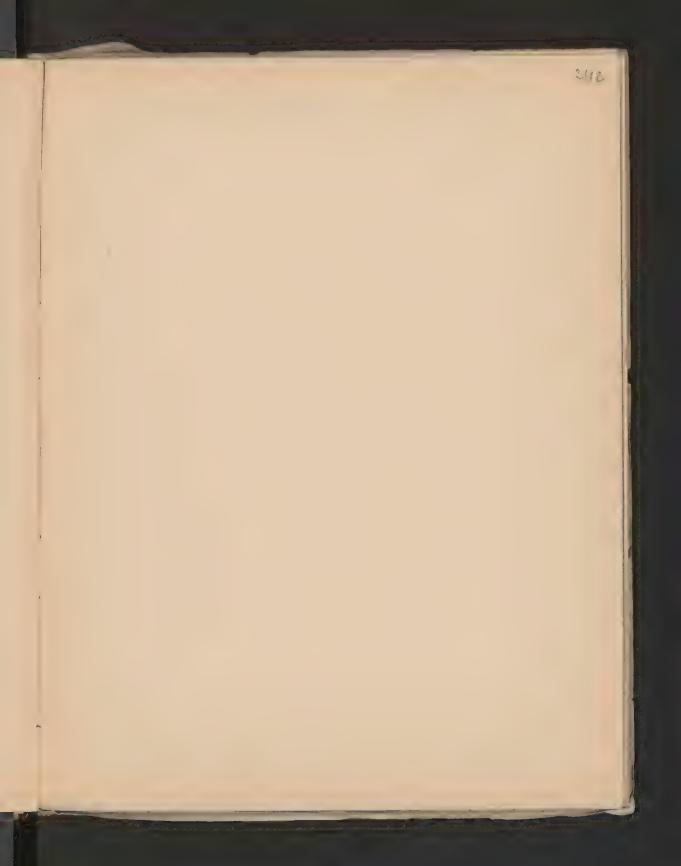
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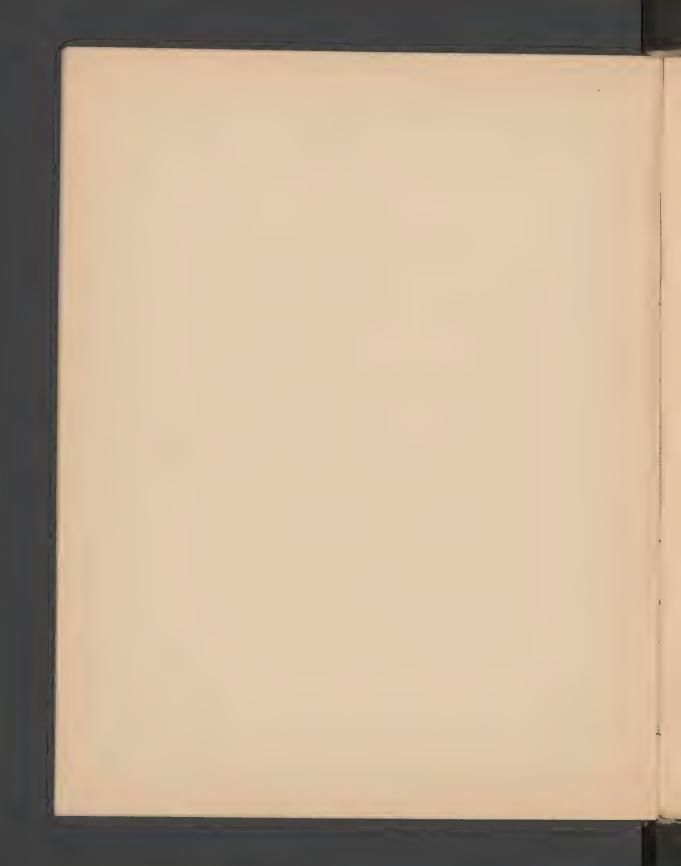
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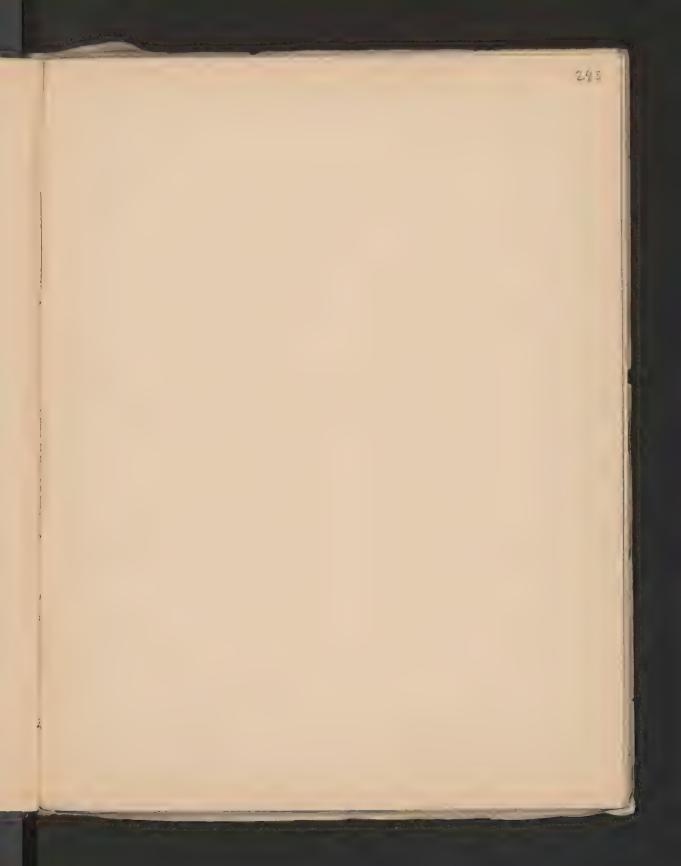
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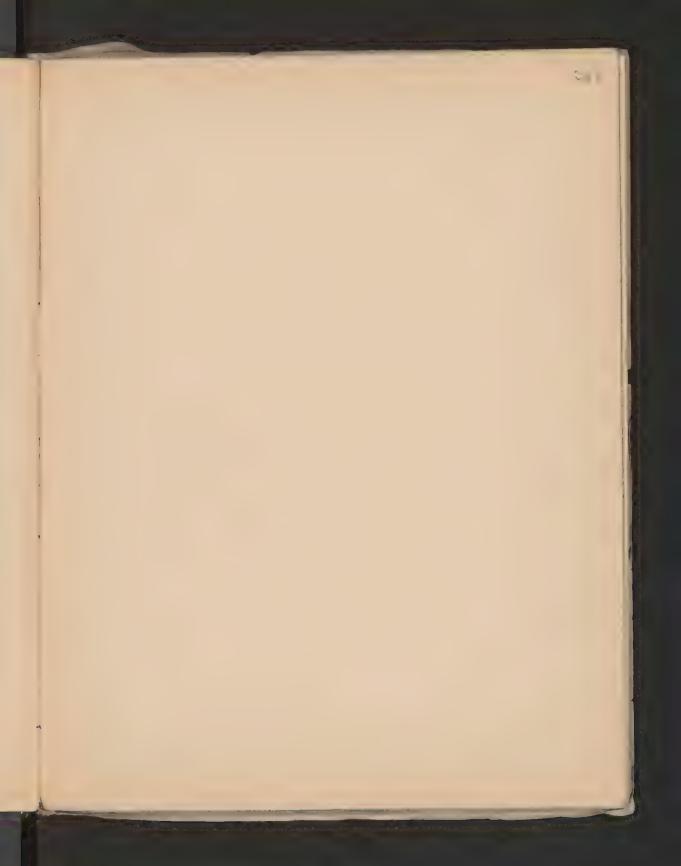




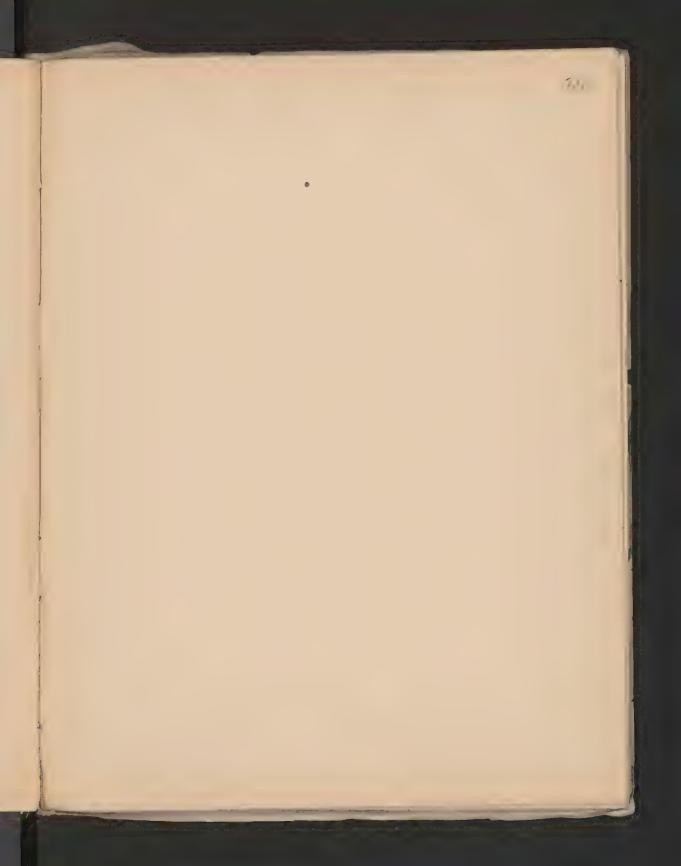




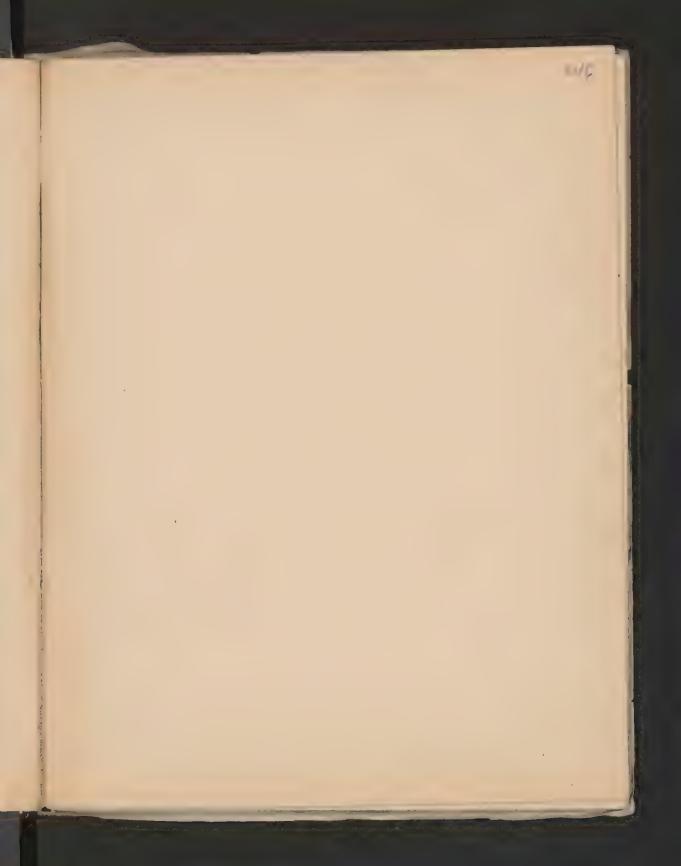


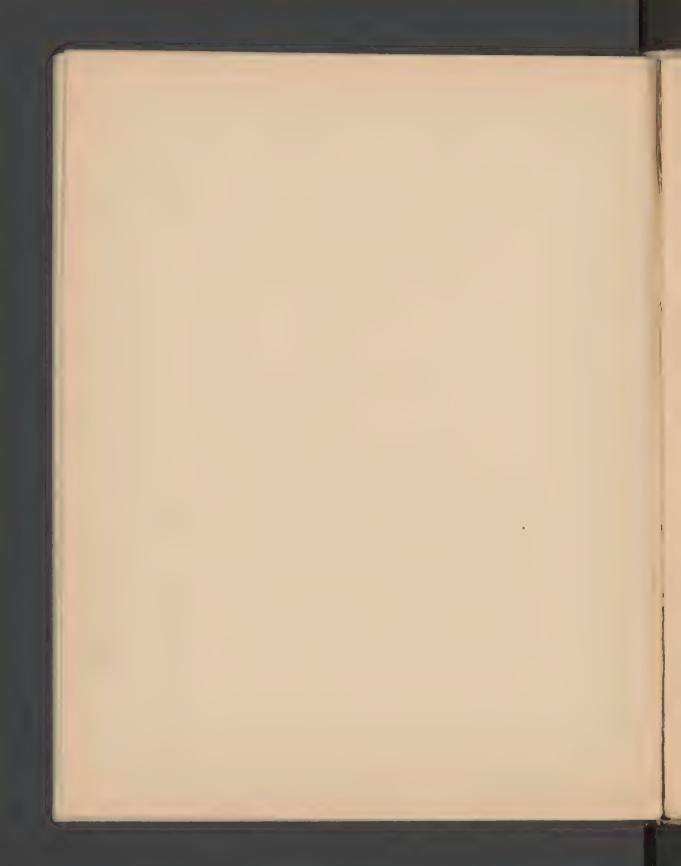


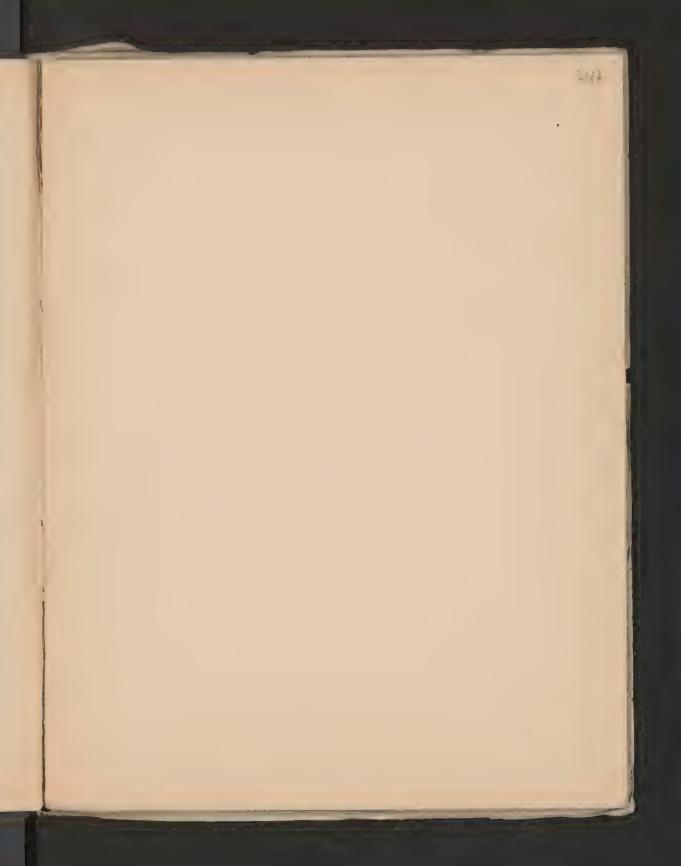




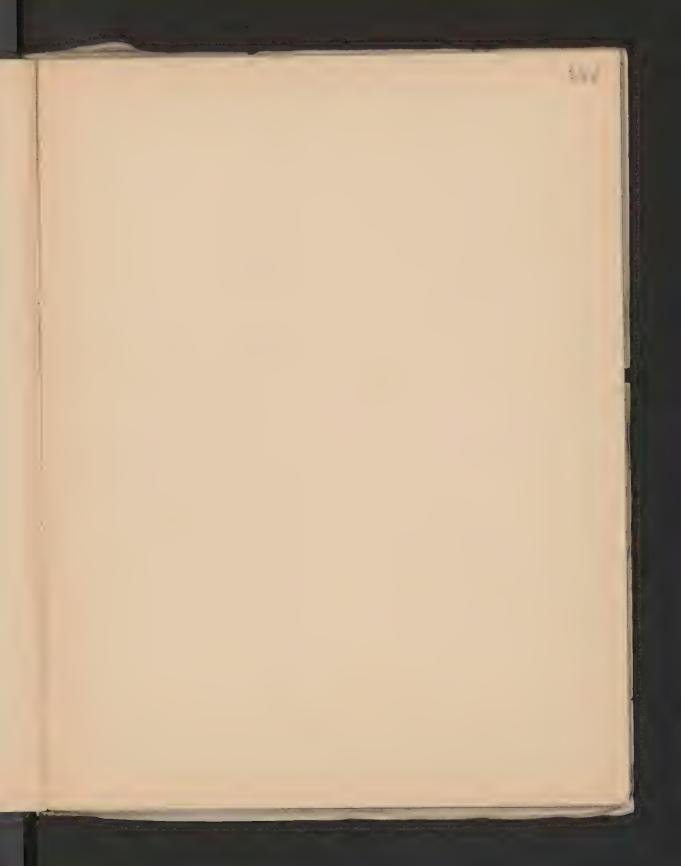


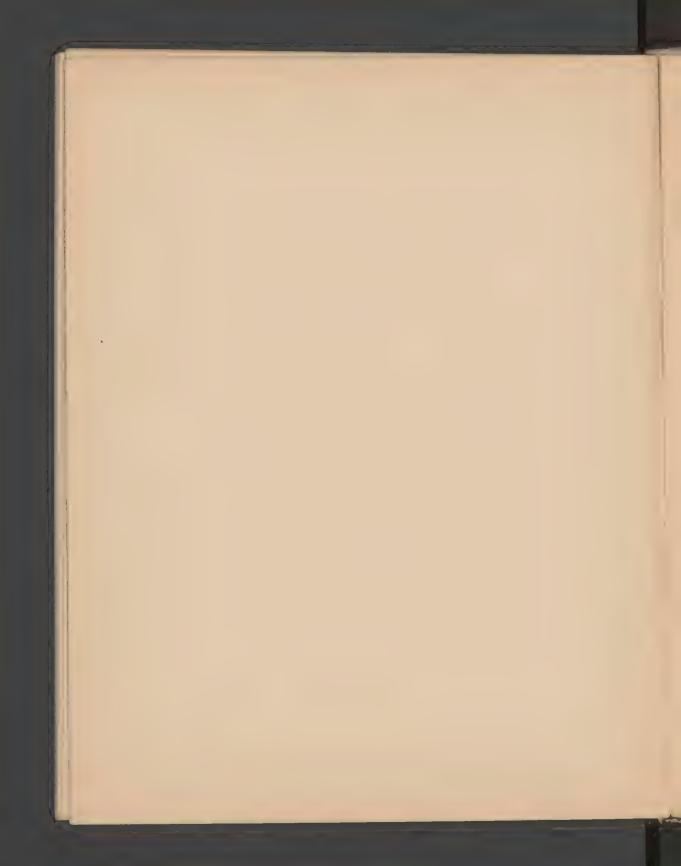


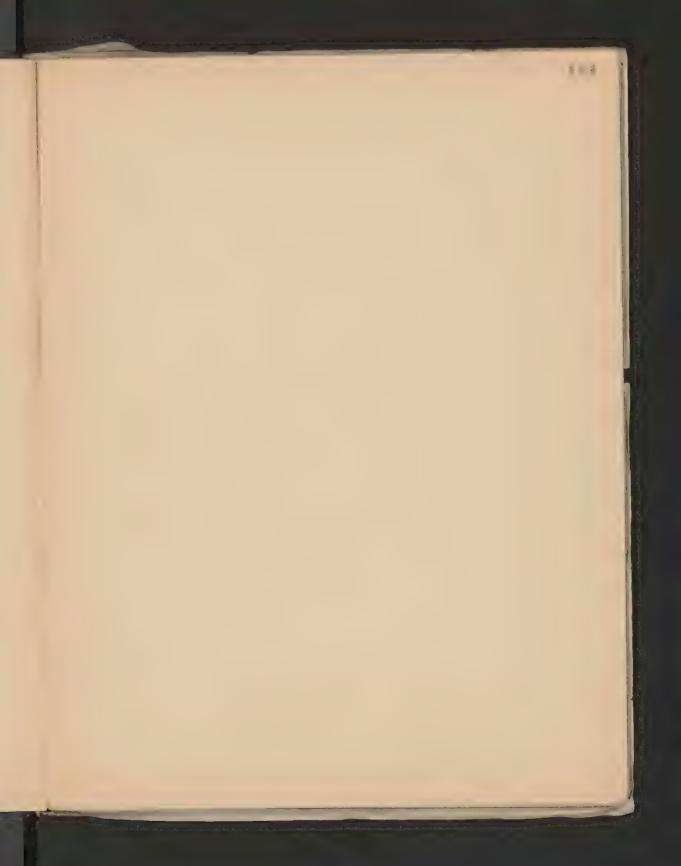




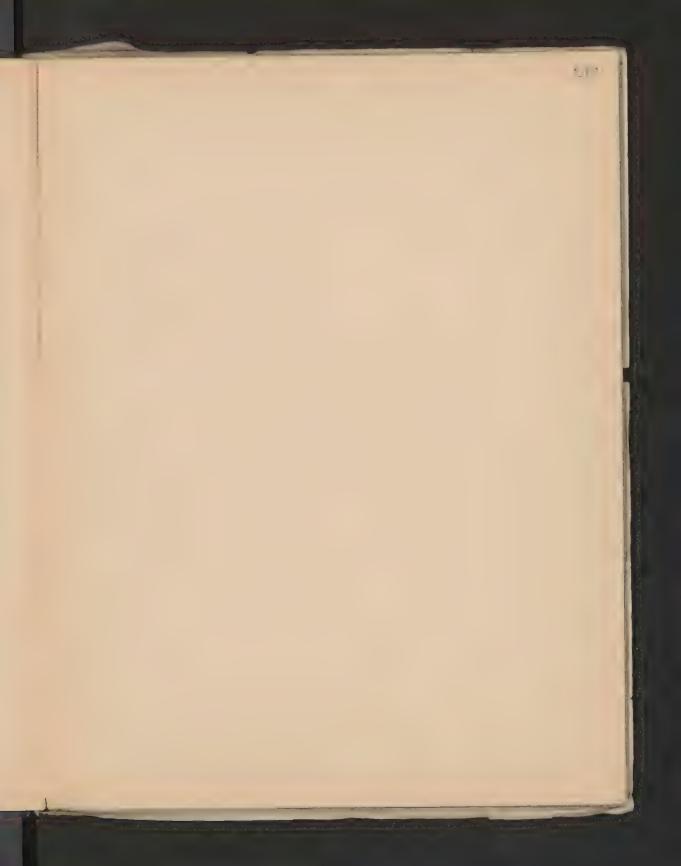












4000-0 was the ops of the was [ize Jamen 7 co 27 I fm/s wrate de de de りわっ デガコ 2 /2 = 21 mg J 45+ 2 0 2 + 6p 2 + 6p C Cd. 5 (2+9+0) = 17 W C 0+0 - . Alom n = 20+ 16+ 10 1.670 () Alexan or & Count. 0/d. 8hg.) (A)

5 0=0 ji v-vi e, vitte (2 " 6" 0) 6 ... 6 glasn 4/20 10 10 R= 2000 15: 5= 5 = 7: Q Out 7: Q 2; High ag Coz, His 502 8=5: H2. 22 N2, W, AC, HOR, HOR, HOT : 2=8 7+1 = y 2 11 2 3 10-16 3 80 -1 2 11. And 3-48 = J= -6(1-1))2 1 W 8 7 2 2 9-NE in 2 por 7 7 = 3 8 : M 2 2 0 3 = N (47 p 3 2 (4,4) 5-42 De De De De De De Compt 14 5 54 x 1015 a General. of a) In bound a \$ 12 Mones! or \$100 or to Im It In It is millen grate Ninh hum 65 p. 055 (1898)

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0645.2 Denzel 286. (0.00116) 2. 39 0.892 09504-4 24564 5.5939 1.5911 6.5443 - -6.5493 0.6322 -9 de \$4288.109 zn. 8'3 . 10 - 6:5939 Alk. 293. (0.00111) 23 0.0453 - 32 = 04061 #-7 0.0009 - 9 2.4669 0.4061 -7 03253-149 1. 10 2.66.109 - 0.8668 -1 0.4255 -149 M: 273. (550)2. 100
R. 10.6 2.7404 24362 54808 -13.0577 11335 0.3785 - 11 6.4434 2.39 .1011 13:0577 2n: 3.9.10 Testa: 288. (0.00159)2. 36 0'2014 - 31. 2 R. 0.626 04028 - 6 0.7966-1 1.5563 6-4434 2 4594 1.51. 108 6.2400 0.4185-2 - 6.2400 2m 2.94. 10-10 0.1785 -8

0.001\$0 152 / St. 0-400 x= 0.00 116 Ourol an 130 0=0.794 M= 736 /= 0.736 0.000100 M= 78, p= 0.892 9.600189 P= 0.000085 m= 72 Centar 0:00159 Tetrolium 0:000 pg P= 0.6263 0-100 0.000 292 0.0000 69 6=0.26 M: 5500 \$50 HSDy: 0.0005\$ -x (Amyst) 0.000003 9 0.000 0465. 0.430 p=1891 33726.1011 P= 13.6 m= 200 R= Mi 44 1116 99 12 9362 1000 ¥6-15-6. 980 5478 5478 0.001293.273 4434 25 70 7 ly R= 2.776 .106 0.1505 7 /2 = \$ 000 552. 294. 79 6.5939 2-78.106. 4.1.84.1.42 42985: 7263 = 5918,10 278.184 877 25.49 121. 25 350900 789525 5115.142 3025 .29 20460 6050 42985 10 2 7263 87725

$$CO_{2}: \frac{9.000490}{1.85} = \frac{9.00}{1.85} = \frac{7.7}{32.5} = \frac{611 = 0.0126}{1.000}$$

$$\frac{1.000}{1.85} = \frac{1.000}{1.000} =$$

$$\int_{a}^{2\pi} dx = \int_{a}^{\pi} dx = \int_{$$

$$\frac{c}{A}\frac{d\theta}{dx} + \frac{d}{b}\frac{du}{dx} = \frac{c}{b}$$

$$\frac{1}{\rho}\frac{du}{dx} = -g$$

$$\rho u = b$$

$$\frac{1}{\rho} = R\theta$$

$$6\rho = R\rho = \rho dx = dx$$

$$S_{y} = \alpha, \beta, S_{x}$$

$$= c \beta, S_{x}, \frac{\beta}{\beta} \xrightarrow{k}$$

$$= c \beta, S_{x}, \frac{\beta}{\beta} \xrightarrow{k}$$

$$\int_{\rho} \frac{dn}{dx} = R\theta \cdot \frac{1}{\mu} \frac{dn}{dx}$$

$$= -R\theta \int_{\rho} \frac{d\rho}{dx}$$

$$= -\frac{1}{\rho} \frac{d\rho}{dx} + \frac{1}{\rho} \frac{d\theta}{dx}$$

$$= -\frac{1}{\rho} \frac{d\rho}{dx} + \frac{1}{\rho} \frac{d\theta}{dx}$$

$$= \frac{1}{\rho} \frac{d\rho}{dx} + \frac{1}{\rho} \frac{d\rho}{dx}$$

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= 6, 10 m = 6 km

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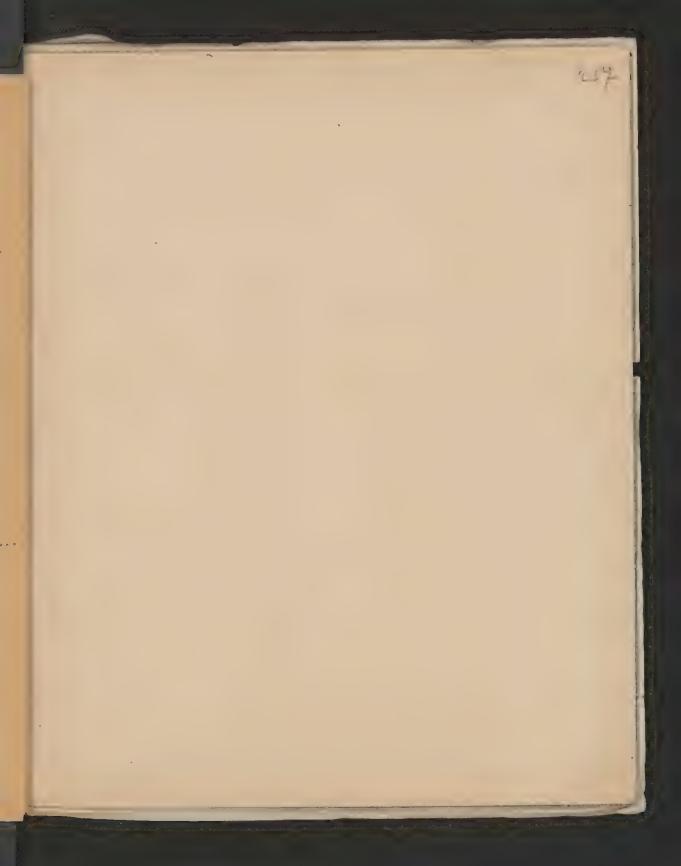
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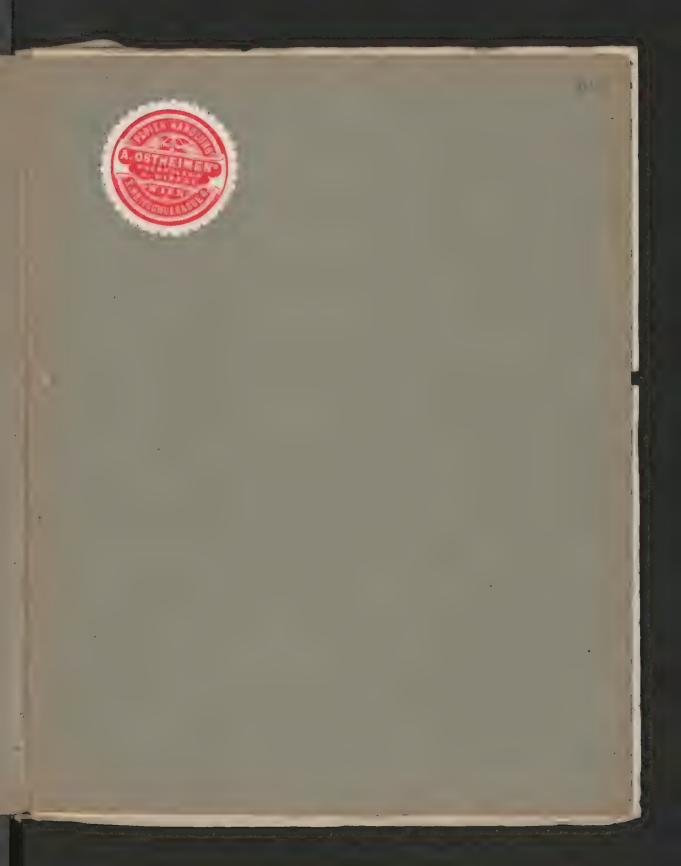
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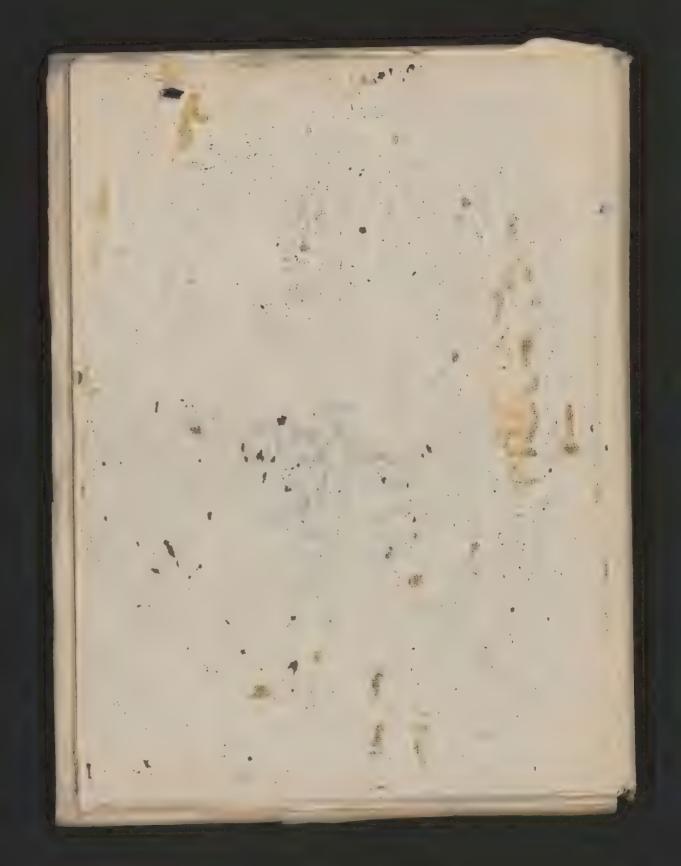
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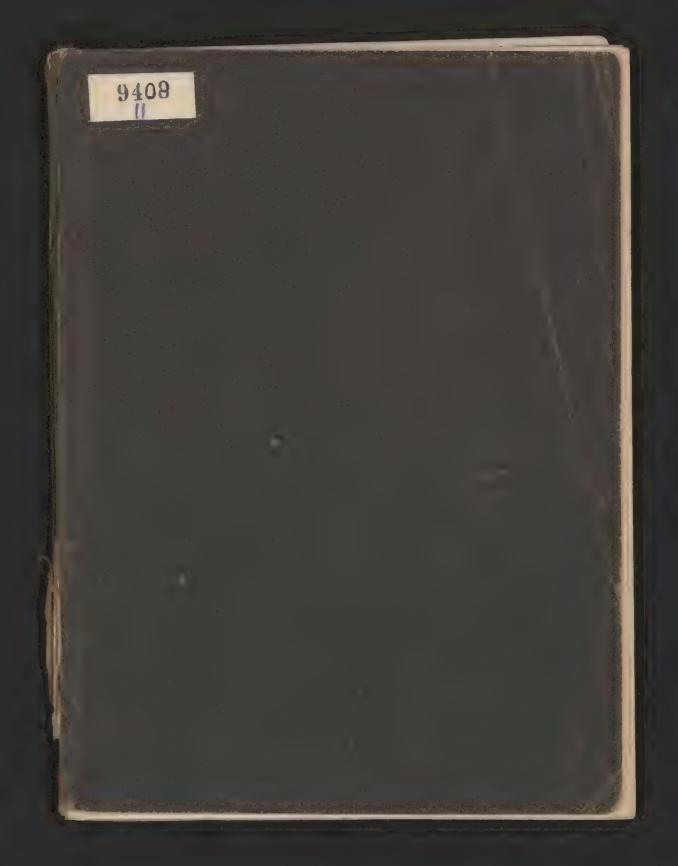
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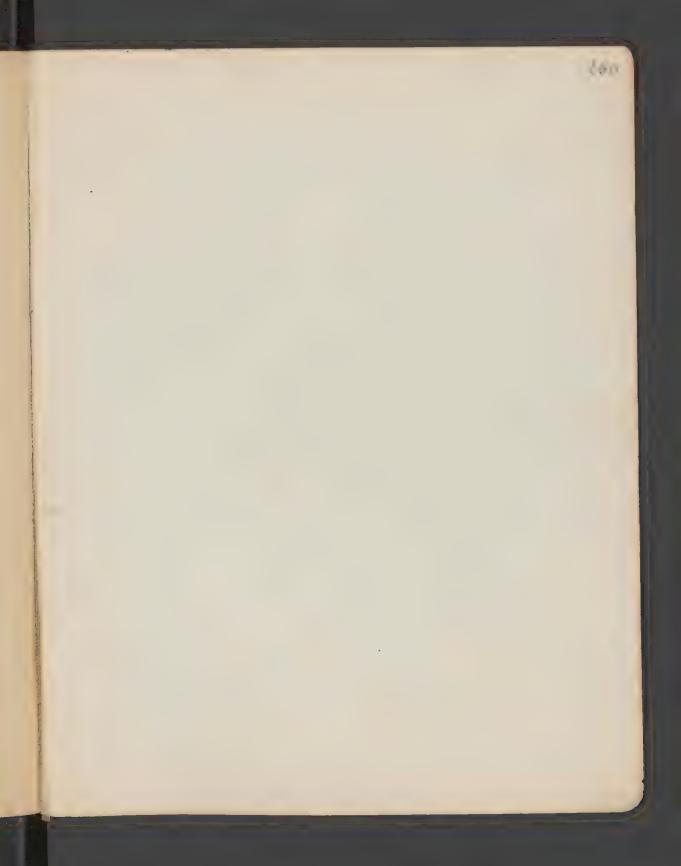




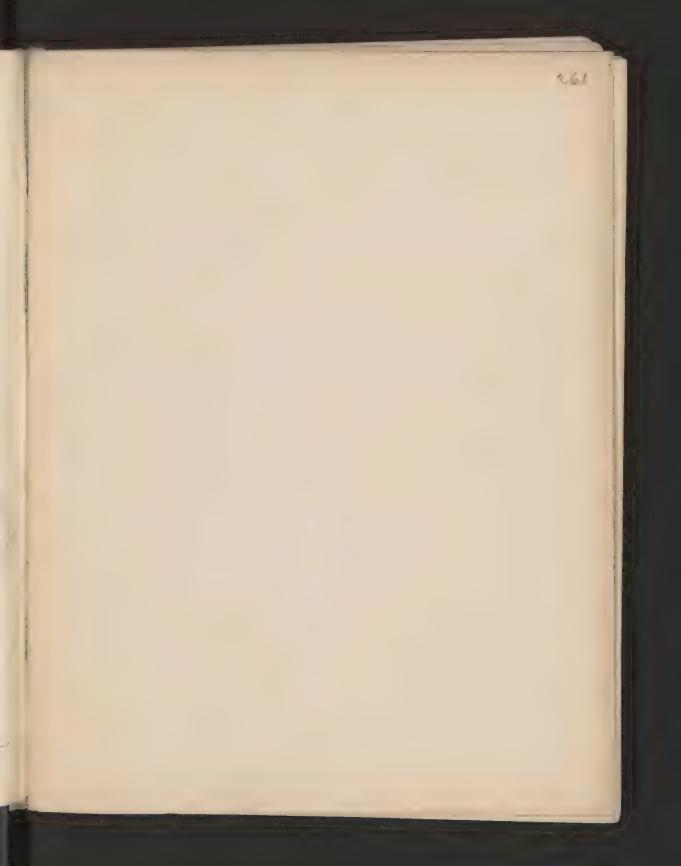


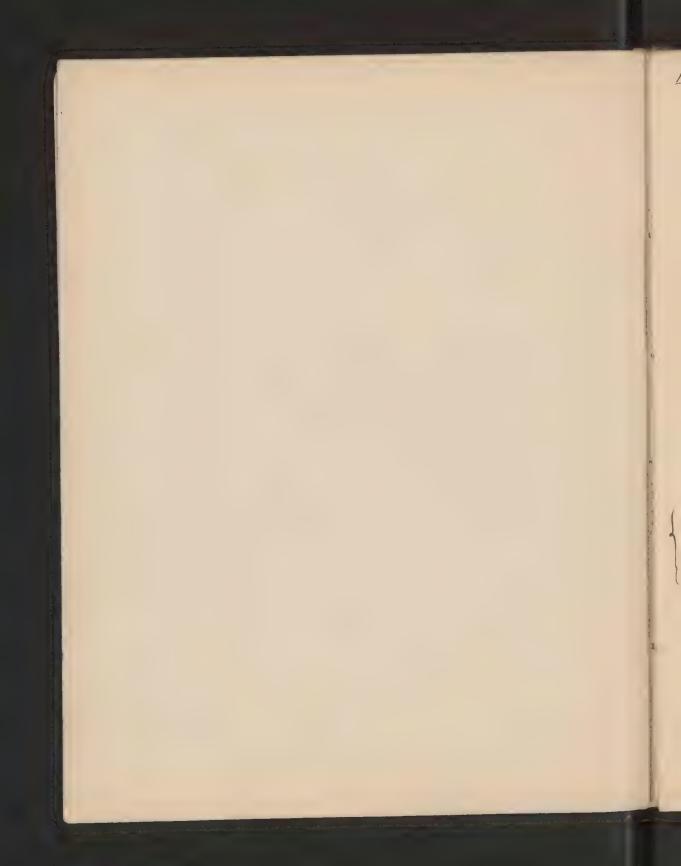






A X X X , t . 1 a .- . J= 2 6. - gr. . - 2 , h. A = 1, = 1 = -' ' ' ' -· = : : ¥





261 $\int_{32}^{27} \frac{9}{12} + \frac{3}{9} \left(\frac{x^2}{13} - \frac{15}{8} \frac{9x^2}{19} - \frac{1}{9} \frac{9^2x^2}{26} \right) =$ $\frac{27}{72} \frac{2a}{\sqrt{4}} + \frac{3}{7} \left[2 \frac{1}{\sqrt{3}} - \frac{15a}{8} \left(\frac{2}{\sqrt{4}} - \frac{4x^2}{\sqrt{6}} - \frac{1}{\sqrt{2}} \frac{2}{\sqrt{6}} + 6 \frac{x^2}{\sqrt{6}} \right) \right]$ $= \frac{27}{16} \frac{a}{1^4} + \frac{3}{2} \frac{1}{1^3} - \frac{45a}{16x^4} + \frac{45}{8} \frac{ax^2}{2^6} - \frac{13a^3}{8x^6} - \frac{9}{8} \frac{a^3x^2}{18} - \frac{9x^2}{2^{25}}$ - X89 a = 3 1 1 - 3 9 - 1 2 1 1 - 5 9 + 1 2 3 2 ste k div' = Dy + nc2 [27 2 + 1/4 (- -) } div' = A2 4 Rongrami system woman 1/2 4/2 12 div 31' = 13 die + 1 1'41 1'=43 div +9 4' = 24 + 4 podiv + 24 = poul 34 70 701 =0 (dx = m Mu 32 = 10 M

$$\mathcal{U} = -\frac{27 \, \text{mc}^2 a}{32 \, \text{k}} \left[-\frac{x}{2^3} + \frac{1}{3} \, \frac{x^3}{2^5} - \frac{a^2 x}{2^5} \left(3 - 5 \, \frac{x^2}{2^4} \right) \right]$$

$$V = -\frac{27}{32} \ln \left[-\frac{4}{23} + \frac{1}{3} \frac{x^2y}{25} - \frac{a^2y}{25} \left(1 - \frac{5}{2} \frac{x^2}{25} \right) \right]$$

$$\mu \Delta^{2} \mathcal{U} = -\frac{27}{32 \, \text{k}} \left(\frac{2 \, \text{x}}{n^{5}} - \frac{10}{3} \, \frac{\text{x}^{3}}{n^{7}} \right) = \frac{\partial}{\partial \text{x}} \left[-\frac{17}{32 \, \text{k}} \, \frac{1}{3} \left(-\frac{1}{3 \, \text{k}} \right) + \frac{\text{x}^{2}}{n^{5}} \right] = \frac{9}{16} \, \frac{R^{2} \, \text{c}^{3}}{R} \left(\frac{1}{3 \, \text{n}} \right) - \frac{\text{x}^{2}}{n^{5}} \right)$$

$$\mu NV = -\frac{27}{32k} \left(\frac{2}{3} \frac{y}{2^5} - \frac{10}{3} \frac{x^2y}{2^7} \right) = \frac{3}{3y}$$

$$\frac{2}{3} \frac{\partial}{\partial x} \left(\frac{x^{2}}{2^{5}} \right) = \frac{4x}{3 \cdot 2^{5}} - \frac{10 \cdot x^{3}}{3 \cdot x^{7}}$$

$$\frac{1}{2} \frac{\partial}{\partial x} \left(\frac{x^{2}}{2^{5}} \right) = \frac{4x}{3 \cdot 2^{5}} - \frac{10 \cdot x^{3}}{3 \cdot x^{7}}$$

$$\frac{1}{2} \frac{\partial}{\partial x} \left(\frac{1}{2^{5}} \right) = -\frac{3x}{2^{5}} \cdot \frac{2}{9}$$

$$\frac{\partial}{\partial y} = \frac{2}{3} \left(+ \frac{4}{2^{5}} - \frac{5x^{3}y}{2^{3}} \right)$$

$$\frac{1}{2} \frac{2}{9} \frac{3}{5} \left(\frac{1}{2^3} \right) = -\frac{3x}{2^5} \cdot \frac{2}{9}$$

$$\frac{1}{3x} \left| \frac{2}{3} \left(-\frac{1}{3} \frac{1}{3} + \frac{x^{2}}{2^{5}} \right) \right|$$

$$\frac{\partial}{\partial y} = \frac{2}{3} \left(+ \frac{y}{2} - \frac{5x^2y}{2^7} \right)$$

$$\varphi = \frac{9}{16} \cdot \frac{n^2 c^2 a}{k} \left[\frac{1}{3z^3} - \frac{x^2}{z^5} \right]$$

$$\frac{16 \cdot \frac{3}{12} + 0 \cdot \frac{3}{12} = \frac{9}{16} \cdot \frac{1}{12} \times \frac{9}{16} \cdot \frac{1}{12} \times \frac{1}{12}$$

$$= \frac{3}{4} \frac{c^{2}a \times \sqrt{\frac{3}{2}}}{\sqrt{\frac{3}{2}}} \left\{ \frac{2}{4} \left[-\frac{9}{2} - \frac{e^{\frac{1}{2}}}{\sqrt{\frac{3}{2}}} - \frac{a^{\frac{1}{2}}}{\sqrt{\frac{3}{2}}} + \frac{3e^{\frac{3}{2}}}{\sqrt{\frac{3}{2}}} + \frac{3e^{\frac{3}{2}}}{\sqrt{\frac{3}{2}}} + \frac{a^{\frac{3}{2}}}{\sqrt{\frac{3}{2}}} + \frac{a^{\frac{3}{2}}}{\sqrt{\frac{3}}}} + \frac{$$

$$= \frac{3u}{3u} + (\frac{3v}{3v}) + (\frac{3v}{3v}) + 2\frac{3u}{3v} + 2\frac{3v}{3v} +$$

$$\frac{\partial y}{\partial x} = \frac{2\pi}{2} \frac{1}{2} \frac{1}$$

$$= \frac{n^{2}c^{2}q}{k} \left[\frac{1}{n^{3}} \left[\frac{35}{16} - \frac{3}{2} \frac{q}{n} - \frac{1}{2} \frac{e^{3}}{n^{3}} \right] - \frac{3}{n^{5}} \left(\frac{35}{16} - \frac{5}{2} \frac{q}{n} + \frac{1}{2} \frac{q^{3}}{n^{3}} \right) \right]$$

$$1 = P - \frac{3}{2} \mu a c \frac{x}{23} + \frac{\mu^{\frac{2}{c} \cdot a}}{k P} \frac{1}{2n^3} \left[\frac{35}{8} - \frac{3a}{n^3} - \frac{a^3}{n^3} \right] - \frac{3x^2}{n^2} \left(\frac{35}{8} - \frac{5a}{n^2} + \frac{a^3}{n^3} \right)$$

Rimono turnisme Has whie:

Juli sig mie voli K = 00 isoterni vente to I to somyo vyda vilkoni co . 20te-

$$\frac{\partial u}{\partial x} = -\frac{3}{4} eq \left[\frac{2x}{x^3} - \frac{3x^3}{x^3} - \frac{2a^3x}{x^5} + \frac{5a^2x^3}{x^7} \right] + c \left[\frac{3}{4} \frac{a^2x}{x^3} + \frac{3}{4} \frac{a^3x}{x^5} \right]$$

$$\frac{\partial u_0}{\partial x} = -\frac{3}{4} c_0 \left[\frac{x}{2^3} - \frac{3x^3}{2^5} + \frac{3a^2x}{2^5} + \frac{5a^2x^3}{2^7} \right]$$

$$\frac{\partial v_{0}}{\partial y} = -\frac{3}{7} c \left[4 \left[\frac{x}{2} \right] - \frac{3xy^{2}}{2^{5}} - \frac{a^{2}x}{2^{5}} + \frac{5a^{2}xy^{2}}{2^{7}} \right]$$

$$\frac{\partial u_0}{\partial z} = -\frac{1}{4} c_0 \left[\frac{x}{1} - \frac{3x^2}{2^5} - \frac{e^{\frac{1}{x}}}{2^5} + \frac{5e^{\frac{1}{x}z^2}}{2^7} \right]$$

$$\frac{\partial u_0}{\partial y} = -\frac{3}{4} c_0 \left[-\frac{3x^2y}{x^5} + \frac{5a^2x^2y}{x^7} \right] + c \left[\frac{3ay}{7x^3} + \frac{3a^3y}{4x^5} \right]$$

$$\frac{\partial u_{s}}{\partial y} = -\frac{3}{4} \left[-\frac{3x^{2}y}{2^{5}} + \frac{5a^{2}x^{2}y}{2^{7}} - \frac{4}{2^{3}} - \frac{a^{2}y}{2^{5}} \right]$$

$$\frac{\partial u_0}{\partial z} = -\frac{2}{4} \left[\cos \left[-\frac{3x^2z}{25} + \frac{5a^2x^2z}{25} - \frac{2}{4^3} - \frac{a^2z}{25} \right]$$

$$\frac{\partial v_0}{\partial x} = -\frac{3}{4} ca \left[\left(1 - \frac{\alpha^2}{n^2} \right) \frac{4}{n^3} + \frac{3x^2y}{n^3} + \frac{2\alpha^2x^2y}{n^3} \right]$$

$$\frac{\partial v_0}{\partial x} = -\frac{3}{4} ca \left[\left(1 - \frac{\alpha^2}{n^2} \right) \frac{4}{n^3} - \frac{3x^2y}{n^5} + \frac{5\alpha^2x^2y}{n^3} \right]$$

$$\frac{\partial v_0}{\partial x} = -\frac{3}{4} ca \left[\frac{2\alpha^2x^2y}{n^3} - \frac{3x^2y^2}{n^5} + \frac{5\alpha^2x^2y}{n^3} \right]$$

$$\frac{\partial v_0}{\partial y} = -\frac{3}{4} ca \left[\frac{3x^2y^2}{n^3} + \frac{5\alpha^2x^2}{n^3} + \frac{5\alpha^2x^2}{n^3} \right]$$

$$\frac{\partial v_0}{\partial x} = -\frac{3}{4} ca \left[\left(1 - \frac{\alpha^2}{n^2} \right) \frac{2}{n^3} - \frac{3x^2}{n^5} + \frac{5\alpha^2x^2}{n^3} \right]$$

$$\frac{\partial u_0}{\partial x} = -\frac{3}{4} ca \left[\frac{4}{n^3} - \frac{3x^2}{n^5} - \frac{3x^2}{n^5} + \frac{5\alpha^2x^2}{n^3} \right]$$

$$\frac{\partial u_0}{\partial x} = -\frac{3}{4} ca \left[\frac{4}{n^3} - \frac{3x^2}{n^5} - \frac{3x^2}{n^5} + \frac{5\alpha^2x^2}{n^3} \right]$$

$$\frac{\partial u_0}{\partial x} = -\frac{3}{4} ca \left[\frac{2}{n^3} - \frac{3x^2}{n^5} - \frac{3x^2}{n^5} + \frac{5\alpha^2x^2}{n^3} \right]$$

$$\frac{\partial u_0}{\partial x} = -\frac{3}{4} ca \left[\frac{2}{n^3} - \frac{3x^2}{n^5} - \frac{3x^2}{n^5} + \frac{5\alpha^2x^2}{n^3} \right]$$

$$\frac{\partial u_0}{\partial x} = -\frac{3}{4} ca \left[\frac{2}{n^3} - \frac{3x^2}{n^5} - \frac{3x^2}{n^5} + \frac{5\alpha^2x^2}{n^3} \right]$$

$$\frac{\partial u_0}{\partial x} = -\frac{3}{4} ca \left[\frac{2}{n^3} - \frac{3x^2}{n^5} - \frac{3x^2}{n^5} + \frac{5\alpha^2x^2}{n^3} \right]$$

$$\frac{\partial u_0}{\partial x} = -\frac{3}{4} ca \left[\frac{2}{n^3} - \frac{3x^2}{n^5} - \frac{3x^2}{n^5} + \frac{5\alpha^2x^2}{n^3} \right]$$

$$\frac{\partial u_0}{\partial x} = -\frac{3}{4} ca \left[\frac{2}{n^3} - \frac{3x^2}{n^5} - \frac{3x^2}{n^5} + \frac{5\alpha^2x^2}{n^3} \right]$$

$$\frac{\partial u_0}{\partial x} = -\frac{3}{4} ca \left[\frac{2}{n^3} - \frac{3x^2}{n^5} - \frac{3x^2}{n^5} + \frac{5\alpha^2x^2}{n^3} \right]$$

$$\frac{\partial u_0}{\partial x} = -\frac{3}{4} ca \left[\frac{2}{n^3} - \frac{3x^2}{n^5} - \frac{3x^2}{n^5} + \frac{5\alpha^2x^2}{n^5} \right]$$

$$\frac{\partial u_0}{\partial x} = -\frac{3}{4} ca \left[\frac{2}{n^3} - \frac{3x^2}{n^5} - \frac{3x^2}{n^5} + \frac{5\alpha^2x^2}{n^5} \right]$$

$$\frac{\partial u_0}{\partial x} = -\frac{3}{4} ca \left[\frac{2}{n^3} - \frac{3x^2}{n^5} - \frac{3x^2}{n^5} + \frac{5\alpha^2x^2}{n^5} \right]$$

$$\frac{\partial u_0}{\partial x} = -\frac{3}{4} ca \left[\frac{2}{n^3} - \frac{3x^2}{n^5} - \frac{3x^2}{n^5} + \frac{5\alpha^2x^2}{n^5} \right]$$

$$\frac{\partial u_0}{\partial x} = -\frac{3}{4} ca \left[\frac{2}{n^3} - \frac{3x^2}{n^5} - \frac{3x^2}{n^5} + \frac{5\alpha^2x^2}{n^5} \right]$$

$$\frac{\partial u_0}{\partial x} = -\frac{3}{4} ca \left[\frac{2}{n^3} - \frac{3x^2}{n^5} - \frac{3x^2}{n^5} + \frac{5\alpha^2x^2}{n^5} \right]$$

$$\frac{\partial u_0}{\partial x} = -\frac{3}{4} ca \left[\frac{2}{n^3} - \frac{3x^2}{n^5} - \frac{3x^2}{n^5} + \frac{3x^2}{n^5} \right]$$

 $\frac{306}{32} = -\frac{2}{7}(a \cdot \frac{xy^2}{2^5} \left[-3 + \frac{5a^2}{2^2} \right]$ $\frac{700}{37} = -\frac{2}{7}(a \cdot \frac{xy^2}{2^5} \left[-3 + \frac{5a^2}{2^2} \right]$ $\frac{700}{37} = -\frac{2}{7}(a \cdot \frac{xy^2}{2^5} - \frac{3x^2}{2^5} - \frac{a^2}{2^5} + \frac{5a^2x^2}{2^7} \right]$ $\frac{700}{37} = -\frac{2}{7}(a \cdot \frac{xy^2}{2^5} - \frac{3x^2}{2^5} - \frac{a^2}{2^5} + \frac{5a^2x^2}{2^7} \right]$ $\frac{700}{37} = -\frac{2}{7}(a \cdot \frac{xy^2}{2^5} - \frac{3x^2}{2^5} - \frac{a^2}{2^5} + \frac{5a^2x^2}{2^7} \right]$

Tuyblisone norghedminic inercy: crem vy kne R, ten miejne p 2 the te miejny up for inercyi, first & Fater ravinizin ordhy potig 1 2 2 2 0 °Co n 40 + 90 4 + 22 4" + + Po [no 3x + n' 3x +] # + 3x + Po 3x = = p[1240 + po 1241 +-] · po divo + po (p'divo + podiv') + k (4, 2/2 +) + k po [u' 2/2 + 40 2/2 +] = = Po + 1/2 Po 4 (de = 1 de dino + m Duo 1. divo + K(40 fe+) = (1-1) \$\bar{4}_0\$ ((uo 3 x + f,) + 3x = 1/3 3x div' + p 1 2 u'] Jesterné crine: fr + 32' = 13 fz dis' + 152' p' dir + po dir + (") + (") + (") + (") + (") = 0 Digi + (of + of + of + of) = 45 1 dis div [67,6] = div [762 + V6 cml6] = [7262 + 6 cml6-(cml6)2 1 = 4/3 div # - | Fdv + 4

He cicay, allo vojde juli ? This v pomnomi de y est. 1, + 2+= m D'ul 2f + 2h + of + D2pl = 1 D dist = 0 fr + 3 / = 1 000 1= \ \frac{7}{472} + 9 for 24/2 = / Bus 4' = u+U Tx = MAU f= m D2 24 2 th = - (3x+gh = r Del i = 1 / f ds 第二川かん the m D'dist = D'p' = - m D'dis u 1'= - n div u + p | Ay=0 -m 2 dish + 34 = n 1/1 - 2 di + 20 = 15V 7 2 ds + 3 = ~ 12 - n Vdisa + Py = n V D f1+ dol + 2x = 1 2" of for + doll + de = 1 And 平千片 = BB! Fether 1879. {= | * - * + 新一部 = レマイ

$$\frac{\partial w}{\partial y} + \frac{\partial v}{\partial x} = 2\pi \left[-\frac{3}{3} \frac{1}{x^{2}} - \frac{4}{3} \frac{1}{x^{2}} + \frac{5}{3} \frac{1}{x^{2}} \right] = 2\frac{1}{2} \left[-\frac{2}{3} \frac{1}{x^{2}} + \frac{4}{3} \frac{1}{x^{2}} \right] = 2\frac{1}{2} \left[-\frac{2}{3} \frac{1}{x^{2}} + \frac{4}{3} \frac{1}{x^{2}} \right] = 2\frac{1}{2} \left[-\frac{2}{3} \frac{1}{x^{2}} + \frac{4}{3} \frac{1}{x^{2}} \right] = 2\frac{1}{3} \left[-\frac{2}{3} \frac{1}{x^{2}} + \frac{4}{3} \frac{1}{x^{2}} \right] = 2\frac{1}{3} \left[-\frac{2}{3} \frac{1}{x^{2}} + \frac{4}{3} \frac{1}{x^{2}} \right] = 2\frac{1}{3} \left[-\frac{2}{3} \frac{1}{x^{2}} + \frac{4}{3} \frac{1}{x^{2}} \right] = 2\frac{1}{3} \left[-\frac{2}{3} \frac{1}{x^{2}} + \frac{4}{3} \frac{1}{x^{2}} \right] = 2\frac{1}{3} \left[-\frac{2}{3} \frac{1}{x^{2}} + \frac{4}{3} \frac{1}{x^{2}} + \frac{2}{3} \frac{1$$

== 2 / 10 / 1 a4x + 6 a rix - 4 a x N + x 6 4 m 1 2 1 N + 2 a (2 ty) - 4 a x (2 ty) N + 2 x 42 ty2) N2 + 2 N2 x 4 2 N2 x 4 -42 Nx2 [x + 42 + 49] + Nx {x4+17+24 + 2x2+242 x y2 + 2422} = 2224 - Maxx + 60'r'x - 40'22x - 1 + x'24 N° =+2 a' 2 + 6 2 x 2 + 12 a x x - 20 a x 2 - 10 all + + 9 x 2 2 4 - 30 2 2 2 2 + 25 2 4 2 = 2+2 a'z' + 4a'z' -12 a'z' - 12 a'z' $\frac{1}{4} = 2 \cdot \frac{9}{16} \left\{ \frac{c^2 a^2}{n^{1/6}} \left\{ \frac{2a^4}{n^4} - 12 \frac{a^2 x^2}{n^4} + \frac{4a^4 x^2}{n^6} \right\} \right\}$ k dir + (40 fx +)=(k-1) \(\overline{\psi} \) # div' = - { (uo mo - .) + k-1 p + 1 + 1 + 2 atem chodsi o uznasenio \$ jeho A27

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To oppositely:

$$A^{2} \left(\frac{x^{4}}{n^{6}}\right) = 12 \frac{x^{2}}{n^{10}} + 10 \frac{x^{4}}{n^{10}}$$

$$A^{2} \left(\frac{x^{4}}{n^{8}}\right) = 12 \frac{x^{2}}{n^{8}} - 8 \frac{x^{4}}{n^{10}} + 8 A$$

$$A^{2} \left(\frac{x^{2}}{n^{8}}\right) = \frac{2}{n^{8}} + 24 \frac{x^{4}}{n^{10}} + 12 \frac{x^{2}}{n^{10}}$$

$$A^{2} \left(\frac{x^{2}}{n^{6}}\right) = \frac{2}{n^{6}} + 6 \frac{x^{4}}{n^{10}} + \frac{12}{n^{10}}$$

$$A^{2} \left(\frac{x^{4}}{n^{4}}\right) = \frac{2}{n^{4}} - 7 \frac{x^{2}}{n^{10}} + \frac{2}{n^{10}}$$

$$A^{2} \left(\frac{x^{4}}{n^{4}}\right) = \frac{2}{n^{4}}$$

$$A^{2} \left(\frac{x^{4}}{n^{4}}\right) = \frac{2}{n^{4}}$$

$$A^{3} \left(\frac{x^{4}}{n^{4}}\right) = \frac{2}{n^{4}}$$

$$A^{4} \left(\frac{x^{4}}{n^{4}}\right) = \frac{2}{n^{4}}$$

$$A^{4} \left(\frac{x^{4}}{n^{4}}\right) = \frac{3}{n^{4}}$$

$$A^{4} \left(\frac{x^{4}}{n^{4}}\right) = \frac{3}{n^{4}}$$

$$A^{4} \left(\frac{x^{4}}{n^{4}}\right) = \frac{3}{n^{4}}$$

$$A^{5} \left(\frac{x^{4}}{n^{4}}\right) = \frac{3}{n^{4}}$$

$$\beta = \frac{3}{4} a^{4}$$

$$\beta = \frac{3}{4} a^{4}$$

$$\beta = -\frac{1}{8} a^{6}$$

$$\delta = -\frac{29}{4} a^{4}$$

$$\delta = -\frac{29}{4} a^{4}$$

$$\delta = -\frac{4}{9} a^{2}$$

10
$$\alpha = 10 a^{6}$$
 $+8\beta = 6 a^{4}$
 $12\alpha + 24\beta = 9 a^{6}$
 $12\beta + 6\beta = -20a^{4}$
 $12\beta + 6\beta = -20a^{4}$
 $2\beta + 2a^{6}$
 $2\beta + 12\beta = 0$
 $2\beta + 12\beta = 0$
 $2\beta + 2\beta = 0$
 $3a^{6}$
 $3a^{6} - 4a^{6}$

$$8_{1} = 3a^{6}$$

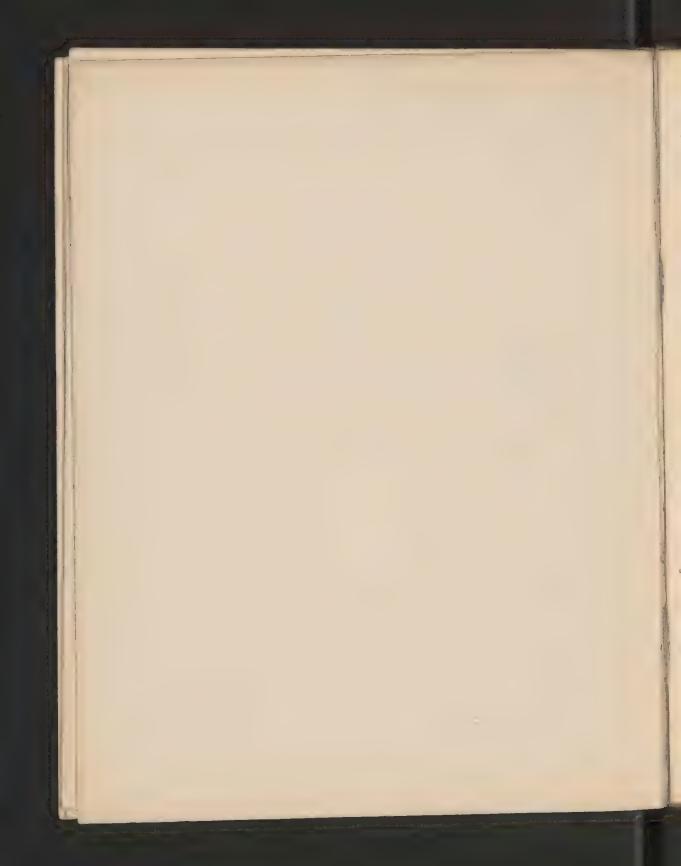
$$f = \frac{3a^{6} - 4a^{6}}{8}$$

$$3\delta = -10a^{4} - 6\beta = -10a^{4} - \frac{9}{2}a^{4} = -\frac{29}{2}a^{4}$$

$$36\theta = 2a^{6} + \frac{1}{4}a^{6} = \frac{9}{4}a^{6}$$

$$\frac{k-1}{K} = \frac{k-1}{K} \frac{q_{0}^{2}}{8} \left[\frac{e^{\frac{\lambda}{3}}}{2^{10}} + \frac{1}{7} \frac{e^{\frac{\lambda}{3}}}{2^{10}}$$

 $\frac{(ab)_{4}}{-\frac{q}{8}} = \frac{c^{2}a^{2}x^{2}}{n^{8}} \left(\frac{1-a^{2}}{n^{2}} \right) + \frac{2}{2} \frac{c^{2}a^{2}x^{2}}{n^{5}} \left(\frac{1-a^{2}}{4n^{2}} - \frac{1}{4n^{2}} - \frac{1}$



$$\begin{aligned} & u \frac{\partial v}{\partial x} + v \frac{\partial x}{\partial x} + U \frac{\partial v}{\partial x} &= \frac{q}{4} \left(\frac{c}{a^{2}} \left(\frac{d}{a^{2}} - \frac{d}{a^{2}} \right) \frac{d}{dx} \right) \left(\frac{d}{a^{2}} - \frac{d}{a^{2}} + \frac{c}{a^{2}} \right) + \frac{d}{a^{2}} \left(\frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} \right) + \frac{d}{a^{2}} \left(\frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} \right) + \frac{d}{a^{2}} \left(\frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} \right) + \frac{d}{a^{2}} \left(\frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} \right) + \frac{d}{a^{2}} \left(\frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} \right) + \frac{d}{a^{2}} \left(\frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} \right) + \frac{d}{a^{2}} \left(\frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} \right) + \frac{d}{a^{2}} \left(\frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} \right) + \frac{d}{a^{2}} \left(\frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} \right) + \frac{d}{a^{2}} \left(\frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} - \frac{d}{a^{2}} \right) + \frac{d}{a^{2}} \left(\frac{d}{a^{2}} - \frac$$

Ange will be may 2... 1.4.5 the said to the second 1.374 $\frac{dy}{dt} = \frac{dt}{dt} + \frac{dr}{dt}$ 7. 3x = 3 2x (3x + 3x +) + m Vi IV). p= R8p D). 30 x + 30x + 30x =0 I). p div + 4 2 + 12 to 2 =0 かけれませまれた 正、一人のなりまかまかまナトをないまりまんがしまれるり 展RP(はませいませいま)= M手+Nサ+(加ま+リキャンな)

vije dle & vonemi formy: 10 + 0 p(x, y, z) = p(x, y, z) Pr= wimmi & sulking Mytoris i = All Alam = 1 f(P) 10, x,y,2) my whated p is Zurimyen P: Kardy C= porameto Cay bydai moina stavici: 1 = # const + 10 + \$ 1' + \$ 2 1"+ .-= 1(0, 0, x, y, 2) + \$ ff. -mogh duig & not punt I dis co: otryna sig rómeni dla d e 2 top regomony ti di'-Vindinger dis 2 I II:)=(k-1)[~ + myro] 四.(1-1)(1)(1) + 1 各(1) Obrugu jho premou pullimer worked adjobat: 2 topo D' a 2 topo 2 a formace I dis Obing'se jobs firmen prythium whited tratiming in \$ + mb'0' = (us \$2+-) Ktúc 2 mysthod toh motor noj vacyonalusjina ?

Metado: Cienore przykaciona din =0 I). 5 % = p Dino div =0 dug = (k-1)[n Φο + κ Δ²θ.] 2 tyo to Duga proflection: IV). A de = de - de I). * div' = - 40 350 + 10 350 + 10 350 + 10 350 + 10 マネニタをでから I). Ox = p did + n D'u' 1' = 45 dis + U Tytanix joh popodor romania I). die + 1 2 + 1 2 + - 20 II. Ky die + (2) + -) = (k-1) [+ + x 20] a driger psyllicism unglighen ofte not punt II, 2 dis es otry Total sig de = + do 2 tyo sopronoug II: div =

budget I of II: (k-1) p dir = - 4 (m 3x + v 50 + v 50) + (k-1) [m \$+ x \$10] Avi At Whie charaktry was holy [pry damen x to,] yeryolog with: Nejprovinj jinhi P bordro duzi i @ bordro duzi v povon ami lo 17 A0 Wtody Didie =0 2 stem and pures I i I rightim skribling of just study objective in the same policy has the same of the musi dy oblissom 2 I 2 moglydrium mendeget westeris; 70: 1-1/2 = - k = (" 3x +-) + k = 1/2 \$ + uso) Speny due zdoření jisse že 九方文献《安教 130十月サレサーラ Wtody: I pryjmyj kntelt: t = went isoterm. 4. 元家助音號 (1-k) (n 2+ -) = (i-1) [n + + x 54] u It + v It To It + n = - K D' | to same bytoby draging Oytami ay Mitmit ionand I shine? zatur organis'ni liping migral tigo proson

2 & if to put Misoneni mosio sight or I). Maryl dis' i sogomod I rolled populariony $\vec{\Phi} = \frac{9}{9} \frac{c^{1}a^{1}}{r^{4}} \left\{ 6 \frac{x^{2}}{r^{2}} + \frac{2a^{4}}{r^{6}} - \frac{12a^{2}x^{2}}{r^{6}} + \frac{4a^{4}x^{2}}{r^{6}} \right\} \quad \text{while } de \theta = 0$ 24 x = 4 94 x = 4 4 $\Delta^{2}\left(\frac{x^{2}}{28}\right) = \frac{2}{28} + \frac{24}{2} \cdot \frac{x^{2}}{2}$ 30 f + 2 x = 2 a4 $\Delta^{-}(\frac{x^{2}}{26}) = \frac{2}{26} + 6 \frac{x^{2}}{26}$ b/ = - 12a2 D= - 01 27+125=0 S= 92 D'(x2) = 24 - 4 26 -4/= 6 y=-3 12 (17) = 12 24+28=0 $\Sigma = \frac{3}{2}$ $\Delta^{*}\left(\frac{1}{\lambda^{*}}\right)=\frac{2}{\lambda^{4}}$ $\Delta^2 \left(\frac{1}{16}\right) = \frac{30}{08}$ 40 また + いまかかた = ムーールには「計れる・サールには「計れる・サールには、また」ールには、また。 D'A = AT ATY D = 4 + U AM =0 1=a/ to=40+ 40 2=0 U=0 $\mathcal{U} = \frac{1}{16} \left[-\frac{27}{32} \frac{1}{2^2} + \frac{9}{32} \frac{x^2}{2^4} - \frac{3}{32} \frac{a^2}{2^4} - \frac{3}{8} \frac{a^2x^2}{26} - \frac{3}{16} \frac{a^4x^2}{16} + \frac{3}{8} \frac{a^2x^2}{26} - \frac{3}{16} \frac{a^4x^2}{16} + \frac{3}{8} \frac{a^2x^2}{26} - \frac{3}{16} \frac{a^4x^2}{16} + \frac{3}{16}$

$$|\mathcal{C}_{0}| = -\frac{1}{2} \left[-\frac{27}{32} - \frac{3}{32} - \frac{3}{48} + \left(\frac{9}{32} + \frac{3}{8} - \frac{2}{16} \right) \frac{x^{\frac{1}{2}}}{a^{\frac{1}{2}}} + \frac{3}{4} \frac{y^{\frac{1}{2}}}{a^{\frac{1}{2}}} \right]$$

$$-\frac{3}{8} \left(\frac{9}{4} + \frac{1}{7} + \frac{1}{6} \right) \qquad \qquad 9 + 12 - 6 + 24 = \frac{39}{32}$$

$$-\frac{3}{8} \frac{64}{24} = 10 = -1$$

$$|| \int_{0}^{2\pi} || \frac{\partial}{\partial x} ||$$

$$\frac{1}{a} + \frac{1}{a^3} = \frac{mc^2}{\kappa}$$

$$\frac{1}{a^3} = -\frac{3\rho}{32} \frac{mc^2}{\kappa}$$

$$\frac{acL}{R}$$

$$\frac{A}{a} = \frac{57}{32} \frac{acL}{R}$$

$$\frac{A}{a^3} = \frac{13}{32} \frac{acL}{R}$$

$$\mathcal{U} = \theta_0 + \frac{me^2}{32\kappa} \left[19 \frac{2}{2} + 13 \left(\frac{2^3}{2^3} - \frac{3\chi^2 q^3}{2^5} \right) \right]$$

$$\theta = 0 + \frac{\mu_{K}^{2}}{\pi} \left\{ \frac{3a^{2}}{32} \left[-\frac{q_{1}}{h} + \frac{3x^{2}}{24} - \frac{a^{2}}{24} - \frac{1}{3} \frac{a^{4}}{26} + 4 \frac{a^{2}x^{2}}{26} - 2 \frac{a^{4}x^{2}}{28} \right] + \frac{a}{h} \left[\frac{19}{32} + \frac{13}{32} \frac{a^{2}}{h^{2}} + \frac{3}{4} \frac{x^{2}}{h^{2}} - \frac{39}{32} \frac{x^{2}}{2^{4}} \right] \right\}$$

Topping to what to znow do II

pu com apracu

(A).
$$\Delta^{*}\theta + u \frac{2\theta}{2x} + v \frac{2\theta}{3} + v \frac{2\theta}{2} = V$$

July Extension $\theta_{1} = 0$, to some:

 $\Delta^{*}(\theta_{1} + \theta_{2}) + u \frac{2(\theta_{1} + \theta_{2})}{2x} + v \frac{2(\theta_{1} + \theta_{2})}{2y} + v \frac{2(\theta_{2} + \theta_{2})}{2z} = 2V$

Take many majorant and and a remark

(B). $\Delta^{*}\theta + u \frac{2\theta}{2x} + \dots = 0$

July many majorant and and a remark

 $A^{*}\theta + u \frac{2\theta}{2x} + \dots = 0$

July $\theta = u \frac{2\theta}{2x} + u \frac{2\theta}{2x} + \dots = 0$

July women do θ as particular $\theta = u + v \frac{2\theta}{2x} + v \frac{2\theta}{2x} + \dots = 0$

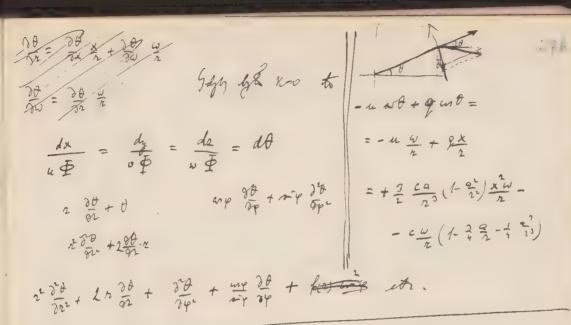
July women do θ as particular $\theta = u + v \frac{2\theta}{2x} + v \frac{2\theta}{2x} + \dots = 0$

July women do θ as particular $\theta = u + v \frac{2\theta}{2x} + v \frac{2\theta}{2x} + \dots = 0$

July women do θ as particular $\theta = u + v \frac{2\theta}{2x} + v \frac{2\theta}{2x} + u \frac{2\theta}{2x} + u$

> Y= Ax2 + 0 + Cx2 + Dx2 7= 2 mx xx Toniares V paryote poty nov 19 2 to 8 mms ravica minant paryti i viceoughts I dyly \$=0 \$ midlying joko johno mativa conspanie 0= 00 + ap (m 3k+.) [1-k Pa] + KAT =0 transy x = K-1 B D=Oo + k-1 \(\frac{\text{P}}{\text{P}}\) p to mie bythy jidnah szpolnon z warmhin dla 2=9 2 Jun to m' moily' sorto owen Styly x=0 to murially by duf=0 Cryly to jus ystarcy and do anasen's ruchen? thegis wongrami 100 + 420 + 1 2 +. = F stryna zig II prus prostanimi Derd + ap ルーナンナル= でして 2 (1-2) * 1- 2 (1-2) * 1- 2 (1-2) (1-2-2) (1-2-2) (1-2-2) * x = \f(1-\frac{a^2}{2^2}\)\[-\frac{3}{2}\frac{a}{2}\frac{1}{2}\frac{a^2}{2}\left(\frac{3}{4}\frac{4}{4}\frac{a^2}{2}\right)\frac{2}{16}\frac{a^2}{2}\left(\frac{1}{4}\frac{a^2}{12}\right)\frac{1}{16}\frac{a^2}{2}\left(\f 24 (23 - 3 21)

Wariari orginisi i zadanie domogniarave; przy su ルニーム ない ひこ 一つか 2 2 (02) + 1 2 (sip 20) + 20 + 3 2 + 3 5 第三条 25 The state of y= | w sing of = du on = on the 2 & work シャーコンコーナーシャーシャーシャーシャーシャーシャーシャーシャーシャーシャーシャーカー 32 + 12 = 30 - 4 3h 概点十分一分别一分别一分别是一 Solyly in sproved & nother when 30 3x + 30 3x + 30 3x = x 30 - VALUE 90 一一一一一一一一 $\frac{\partial^{2} z}{\partial x^{2}} = \frac{\partial^{2} z}{\partial y^{2}} \left(\frac{\partial^{2} y}{\partial x} \right)^{2} + \frac{\partial^{2} z}{\partial y^{2}} \left(\frac{\partial^{2} y}{\partial x} \right)^{2} + 2 \frac{\partial^{2} z}{\partial y^{2}} \frac{\partial^{2} y}{\partial x} + \frac{\partial^{2} z}{\partial y^{2}} \frac{\partial^{2} y}{\partial x} + \frac{\partial^{2} z}{\partial y} \frac{\partial^{2} y}{\partial y} + \frac{\partial^{2} z}{\partial$ 32 = 32 35 + 32 34 30 50 32 + 30



$$P = -\frac{1}{2} \frac{\partial \phi}{\partial x} + \frac{1}{2} \frac{\partial \phi}{\partial x} + \frac{1}{2} \frac{\partial \phi}{\partial x} + \frac{1}{2} \frac{\partial \phi}{\partial x} = \Phi$$

$$R = 1$$

$$P = -\frac{1}{2} \frac{\partial \phi}{\partial x}$$

$$V = 1$$

$$Y = -\frac{c}{2}(1 - \frac{2}{2} \frac{a}{2} + \frac{1}{2} \frac{a}{2}) \frac{a}{2} \frac{a}{2} \frac{1}{2}$$

$$\int_{-\frac{a}{2}}^{2} \int_{-\frac{a}{2}}^{2} \int_{-\frac{a}{2}$$

$$\frac{1}{\sqrt{1}} = \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \left\{ \frac{2a^{4}}{2^{4}} + b - \frac{bw}{a^{4}} - \frac{12a^{4}}{4^{4}} + \frac{4a^{4}}{a^{4}} - \frac{4a^{4}a^{4}}{2^{5}} \right\} = \frac{1}{\sqrt{2}} \left\{ \frac{1}{\sqrt{2}} + \frac{2a^{4}}{\sqrt{2}} + \frac{4a^{4}}{\sqrt{2}} + \frac{4a^{4}}{\sqrt{2}} + \frac{4a^{4}}{\sqrt{2}} + \frac{4a^{4}}{\sqrt{2}} + \frac{4a^{4}}{\sqrt{2}} \right\} = \frac{1}{\sqrt{2}} \left\{ \frac{1}{\sqrt{2}} + \frac{2a^{4}}{\sqrt{2}} + \frac{4a^{4}}{\sqrt{2}} + \frac{4a^{4}}{\sqrt{2}} + \frac{24}{\sqrt{2}} + \frac{4a^{4}}{\sqrt{2}} + \frac{4a^{4}}{\sqrt{$$

0= a/+ b 2(1)+c 2x(2)+-

$$\theta = \frac{a}{2} + b \frac{2}{2x} (\frac{1}{2}) + c \frac{2}{2x} (\frac{1}{2}) + \cdots = \frac{x}{2} \left[2 + b (\frac{1}{2}) + \cdots \right] + F_{2} - c \frac{2}{2x} (\frac{1}{2}) + b \frac{2}{2x} \frac{2}{2x} (\frac{1}{2}) + \cdots = \frac{x}{2} \left[2 + b (\frac{1}{2}) + \cdots \right] + F_{2} - c \frac{2}{2x} (\frac{1}{2}) + b \frac{2}{2x} \frac{2}{2x} (\frac{1}{2}) + \cdots = \frac{x}{2} \left[2 + b (\frac{1}{2}) + \cdots \right] + F_{2} - c \frac{2}{2x} (\frac{1}{2}) + c \frac{$$

7 6 + 5/36 35 + 24 34 + 36 354 + 36 354 = 0 rote- judi sig de enden toki y sichy 2 34 334 +-- = \$\overline{\Psi}\$ 1 Dig + 1 30 + 30 to 26 = 0 I 30 ds + 1 in 8 ds max + v 8 ds mny - I fo (3x + 3x + 3x) ds 1 30 ds + 1 0 vn ds =0 Lottonje to do mark green eight 100 + 4 20 + -Del # 1 201+ - 20 240-0)+1 3 (0+01) + 0 30 +81) + 20 120+0)+1 210-00 + 1 2(0-0) +

2 through the same sadami upon

$$\frac{d^{2}}{dx} + \frac{d^{2}}{dx} + \frac{d^{2}}{dx} = \frac{d^{2}}{dx}$$
 $\frac{d^{2}}{dx} + \frac{d^{2}}{dx} + \frac{d^{2}}{dx} = \frac{d^{2}}{dx}$
 $\frac{d^{2}}{dx} + \frac{d^{2}}{dx} + \frac{d^{2}}{dx} = \frac{d^{2}}{dx}$
 $\frac{d^{2}}{dx} + \frac{d^{2}}{dx} + \frac{d^{2}}{dx}$
 $\frac{d^{2}}{dx} + \frac{d^{2}}{dx} + \frac{d^{2}}{dx}$
 $\frac{d^{2}}{dx} + \frac{d^{2}}{dx} + \frac{d^{2}}{dx}$

$$\int_{1}^{2} \frac{(k-1)}{2} \frac{du}{u} - \frac{(k-1)}{2} \frac{du}{u} - \frac{c}{u} - \frac{$$

W prz odku byontiniany :

$$\frac{(k+1)\frac{b}{2}}{\frac{4}{4}} \times + \text{wort} = \left[\frac{1}{2} + \frac{4}{\sqrt{4^{2}-4c}}\right] \log (n - \frac{4}{2} - \sqrt{\frac{4^{2}-c}{4^{2}-c}}) + \left[\frac{1}{2} - \frac{\frac{1}{2}}{\sqrt{4^{2}-4c}}\right] \log (n - \frac{4}{2} + \sqrt{\frac{4^{2}-c}{4^{2}-c}})$$

$$\frac{(k+1)\frac{1}{2}}{\frac{4n}{3}} \times + wm^{4} = \frac{1}{2} ly (u^{2} - Au + C) + \frac{A}{\sqrt{4C-A^{2}}} avoty \frac{2u-A}{\sqrt{4C-A^{2}}}$$

(2)
$$p = \frac{b}{2} \left\{ (k-1)u + (k+1) \frac{C}{u} - (k-1)(k+1) A \right\}$$
 | engithin miceovirus p!

(3)
$$\theta = \frac{\pi u}{R \rho u} = \frac{\pi u}{R \delta} = \frac{1}{2R} \left\{ (k-i) u^2 - (\frac{k^2}{R}) A u + (k+i) C \right\}$$
 missolimie of δ !

$$\frac{(1)}{(2)} : \frac{(k+1)}{2} \stackrel{f}{\approx} \times f = \left[f_{c.}(u, A, C) - vont \right] \stackrel{f}{\approx} \mathscr{P}(m, A, C)$$

finds my. I done my direct produces to more May' A, C oprone typ vartori & x pray pearum a to squika wantor unot

N.p. dlax=0 to rozowora (3) othymus si dolg: novnamie (2): px = 2 hone finky a & Box Rtpx = 4/ 1/ (f-wort) p P = 4/K+ (f-wyt) = 4/K+1 (f-wyt) 20th b= pn= 3/4 (f-word) de musi s koider rom by vegi njemme, many by not mi nostijet dr = dr dr = = = (k+1) C } (k+1) \frac{1}{4} \frac{1}{4} \frac{1}{4} \frac{1}{4} $=\frac{\delta^2}{4}\frac{k+1}{y_m}\left[\frac{k-1-(k+1)}{m}\right]\left[\frac{n^2-A_n+C}{m}\right]$ <0 when also $k-1 < \frac{(k+1)C}{L}$ stander kardy rasin forme granice dla u albo n= An+C <0 Pibo: wtari dre graine I I II 1 (k-1) 2 (k-1) [k-1) [k-1] [x-h,r] 4n fin-A - w- det of my Angle Var-An-16+An-C

$$\frac{b^{2}(kn)}{\frac{4n}{3}} + \frac{b^{2}}{n} \frac{(k^{2}-1)}{\frac{4n}{3}} - \frac{b^{2}}{n} \frac{(kn)^{2}}{n} \frac{c}{n} = \frac{4n}{3} \left(1 - \frac{c}{n^{2}}\right)$$

Spetimon ty/ho juli:

$$\frac{b^{2}(\kappa+1) + \frac{b^{4}(\kappa^{2}-1)}{4} = \frac{(4\pi)^{2}}{4} = \frac{b^{4}[\kappa^{2}-1 + 2(\kappa+1)]}{4} = \frac{b^{4}[k^{2}+2k+1]}{4} = \frac{b^{4}[\kappa+1]^{2}}{4}$$

$$\frac{b^{2}(\kappa+1)^{2}}{4} = \frac{(4\pi)^{2}}{4}$$

$$\frac{b^{4}(\kappa+1)^{2}}{4} = \frac{(4\pi)^{2}}{4}$$

$$b = \frac{8n}{3(k+1)}$$

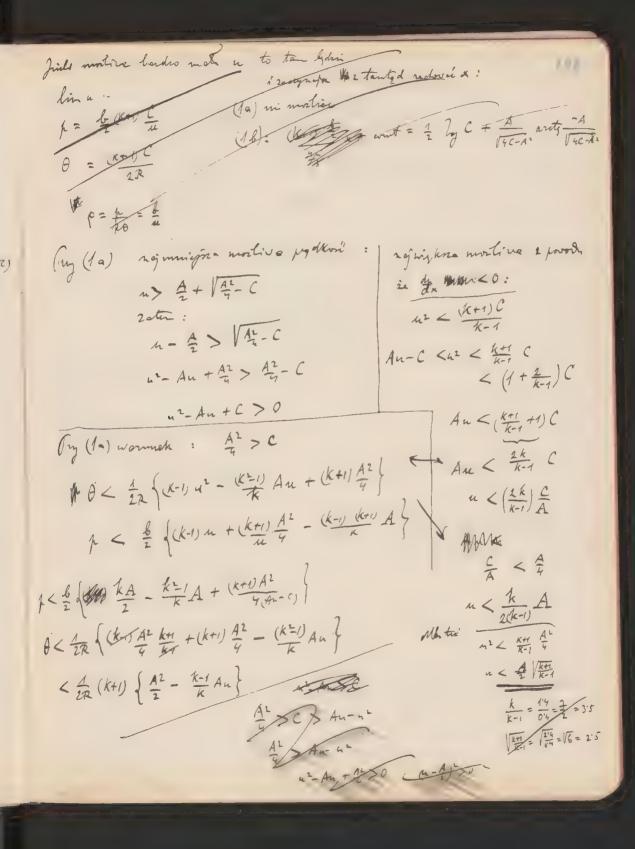
Tuos roman's projumpe kntelli:

(3)
$$\theta = \frac{1}{2\pi} \left\{ (k-i) u^2 + (k+i) C - (k-i) A u \right\}$$

$$n = \frac{g_{p}}{3(k+1)} \frac{1}{e}$$
 N_{ef} . $n = \frac{1}{10}$ $n = \frac{1}{10}$

K & (K-U u + K+1) = - K-1) K+1 A + K & K+1 [K-1 - K+1) [Jun Au + C] (K-1) 4/3 (K+1) & u2-Au+c) K 4n { (k-1) n+ (kn) = - (k-1)(n+1) A} + & (k+1) { k-1 - (k+1) C } { n- An+ C} = = $(k-i)(k+i)^2 \frac{b}{2} \left\{ u - A + \frac{c}{u} \right\}^2$ 12 K (K-1) 1 1 1 - (K-1) (K+1) A + (K+1) C = (K+1) [u-A+C] (K+1) (u-A+C) -- u(k-0) / (k+0) } 2 6 (K+1) [a-A+ = 7 [2n -(K+1)A + 2(K+1)] Now more by nulmon! 1 = 4 din I). Ky du + u = (K-1) 45 du du I). b du + 1 = 43 du (du) bu +/ 1 = 4m dm + a 2 fort & frem fr + 1840) & - 0K-1366000 Af = 3 1840 A 1840

K & (K-1) (K+1) (K+1) (K+1) (K+1) (K+1) Witanogra v II: K & (k-1) n + k+1) & - (k-1) k+1) A } ((k-1) n + k+1) & (k-1) n + k+1) & (k-1) n + k+1) =(k-1) \$\frac{1}{2} \left(\text{K+1} \right) \right\} KKtot - K+18 - K-18 + 1). X (K+1) 2 12- Ante + 1 [k-1 2 (K+1) C | 1 - Ante = 1 (K+1) 1 12- C 42- Ante 2+ K-1 / K+1) (K+1) (- Ex)



W (1a): (16) warmek Konicung 4- Aut C >0 predkosí vzmegojena siz z ktyrnig x ration du >0 2 tim oriby by & spelinione of <0 musi byé de co mj- Ette uz < ix+1 C const = [1] 2/(1, -1/2-1) +[] - $\frac{(k+1)^{\frac{1}{2}}}{\frac{4}{3}} \times = \left[\frac{1}{2} + \frac{1}{\sqrt{A^{2}-4c}}\right]^{\frac{1}{2}} \left(\frac{n-\frac{1}{2}-\sqrt{A^{2}-c}}{n-\frac{1}{2}-\sqrt{A^{2}-c}}\right) + \left[\frac{1}{2} - \frac{1}{2} + \frac{1}{2} - \frac{1}{2} - \frac{1}{2} + \frac{1}{2} - \frac{1}{2} + \frac{1}{2} - \frac{1}{2} + \frac{1}{2} - \frac{1}{2} + \frac{1}{2} - \frac{1}{2} - \frac{1}{2} + \frac{1}{2} - \frac{1}{2$ & (k#) C = kpo a C = kpo a (k+) & & (Kr) (A = pot A = Kpo $\frac{1}{2} \frac{1}{2} \frac{1}$ = 1 by A - A = 1 by M-A = 1 by M-X 2 th (k+1) \frac{1}{2} \times \frac{1}{2} \left[\left(\mu_{-} \mu_{1} \right) \left(\left(\k_{+1} \right) \frac{1}{2} + \left\ \left(\mu_{1} - \alpha \right) \frac{1}{2} + \left\ \left(\mu_{1} - \alpha \right) \frac{1}{2} \right\}

Co juils u = Au + c < 0 $\int u du = \int u du$ $= \int u du$

 \mathcal{L} graning progradker, gdrin $C = \frac{A^2}{4}$ $(k+1)^{\frac{1}{2}} \times + \omega n A = \log (n - \frac{A}{2}) - \frac{A}{2(n - \frac{A}{2})}$

u bardro mate : M. E STA $\theta_0 = \frac{(k+i)C}{1R}$ $C = \frac{2R\theta_0}{4+1}$ # b = 1 10 no Kottky const = i by C + A arety -A arty more tylho dojili do I for most o do as " pod nos joh by. wente stale a n Cry szestojó um u: 2 stem als without a beging jui tylko: $\frac{(k+1)\frac{d}{dx}}{\sqrt{2}} \times = \frac{1}{2} \log \frac{n^2 - An + C}{C} + \frac{A}{\sqrt{2}(C-A^2)} \left[\operatorname{arty} \frac{2n - A}{\sqrt{2}} + \operatorname{arty} \frac{A}{\sqrt{2}} \right]$ ty (9+4)= 44+44 9+4= orty top+ 5+ Ha u bades disigs: 1 = e . e 7 x = arety \frac{2u}{1 - \frac{(2u - A)}{4c - A^2}} = \frac{2u}{4c - 2u} \frac{2u}{4c - 2u} = arety \$ 14C-AL

dla melych u pote puzhlicenie: $\frac{du}{dx} = \frac{(k+i)^{\frac{1}{2}}}{\frac{1}{\sqrt{2}}} \frac{u - Antc}{u} = \frac{(k+i)^{\frac{1}{2}}}{\frac{1}{\sqrt{2}}} \frac{L}{u_0} = \frac{(k+i)^{\frac{1}{2}}}{\frac{1}{\sqrt{2}}} \frac{R}{u_0} = \frac{h_0 u_0}{\frac{1}{\sqrt{2}}}$ wife tan bydan: | u= uo + pouo x of 1 = 1 [min 274] [min 274] [min 274] [min 274] [min 274] [min 274] (K+1) \frac{1}{2} x + conf = \frac{1}{2} ly (n^2 - An + C) + \frac{A}{2} \frac{1}{VA2-4C} ly \bigg[\frac{A + VA2-4C}{A - VA2-4C} - 2n \bigg] gdy u od magh vartoni pougossy | the though: (k+1) = x + und = 2 2g C + 2 f 3+1 elling zig do n= = - 12-C to somenie one przyminikatatt: i' which have the series of t (K+1) = -00 + D $=\frac{c}{A}$ $/\!\!/= \alpha$

Misseni ovoj wertorii -00 too. The second second $\begin{cases} \frac{1}{2} \int_{A^{-}}^{A^{-}} \frac{1}{A^{-}} \frac{1}{A^{-}}$ A+12-c-n= 5+1/A=4c = 1 7 [5+ VA24E] 1+ A wy bydri = +00 just powroz A > VAZ-4C 2 otem dle x = 00 u orige warter makeyndre u = A - /AL-C = 0 Januardini Adyl. Tem hasie.

Tem hasie. $\theta = \frac{A^2}{2\pi} - C - AV$ $\lambda = 0$ $\lambda = 0$ $\frac{1}{2} = \frac{1}{2} \left\{ \frac{1-k}{k} \frac{A^2}{2} + 2C + \frac{k-1}{k} A \right\} \frac{A^2}{2} - C$ $\theta_{\infty} = \frac{1}{22} \left[-\frac{k-1}{k} A \left(\frac{A}{2} - \sqrt{\frac{A^{2}}{4} - C} \right) + 2C \right] = \frac{1}{22} \left[2C - \frac{(k-1)}{2} (\alpha^{2} + C) \right]$ $\theta_{\infty} = \frac{1}{2R} \left[C(2 - \frac{k-1}{R}) - \frac{K-1}{R} \alpha^{2} \right] = \frac{1}{2RR} \left[(k+1)C - (k-1)\alpha^{2} \right]$ $100 = \frac{R \cdot b}{\alpha} = \frac{b}{2k\alpha} \left[(k+1) \cdot C - (k-1) \cdot \alpha^2 \right]$

$$\frac{f_{k}}{f_{k}} = K \alpha \left[(K-1) u + (K+1) \frac{C}{u} - \frac{(K^{2}-1)}{\kappa} \frac{\alpha^{2}+C}{\alpha} \right]$$

$$\frac{(K+1) \frac{1}{2} (K+1) (K-1) (K-1) (K-1)}{(K+1) \frac{1}{2} (K+1) (K-1) (K-1) (K-1)} \times + const = \frac{1}{2} \log \left[u^{2} - \frac{\kappa^{2}+C}{\alpha} u + C \right]$$

$$\frac{(k+1)\frac{b}{2}}{\frac{4n}{3}} \times + const = \frac{1}{2} log \left[n^{\frac{1}{2}} \frac{x^{2}+C}{\alpha}n+C\right]$$

$$+ \frac{x^{2}+C}{2\alpha} \frac{\alpha}{\alpha^{2}-C} log \frac{\alpha+\frac{\alpha^{2}-C}{\alpha}-n}{\alpha-n}$$

$$= \frac{1}{2} log \left[n^{2}-\alpha n-\frac{C}{\alpha}n+C\right] + \frac{x^{2}+C}{2(\alpha^{2}-C)} log \left[2-\frac{C}{\alpha^{2}}-\frac{n}{\alpha}\right]$$

$$= \frac{1}{2} log \left[n^{2}-\alpha n-\frac{C}{\alpha}n+C\right] + \frac{x^{2}+C}{2(\alpha^{2}-C)} log \left[2-\frac{C}{\alpha^{2}}-\frac{n}{\alpha}\right]$$

puntt føkse n=0: x=0

Court =
$$\frac{1}{2} \log C + \frac{\alpha^{n+1} C}{2(\alpha^{n+1} C)} \log \left(2 - \frac{C}{\alpha^{n}}\right)$$

$$(k+1)^{\frac{d}{2}} = \frac{1}{2} ly \left[\frac{u^2 - \alpha u}{c} - \frac{u}{\alpha} + 1 \right] + \frac{\alpha^2 + c}{2(\alpha^2 - c)} ly \left[\frac{1 - \frac{u}{2\alpha^2 - c}}{1 - \frac{u}{\alpha}} \right]$$

$$f_0 = \frac{b}{2} (k+1) \frac{C}{u_0} = \frac{(k+1) C}{2} p_0$$

dla == a:

$$\begin{cases} 1 = 3\left[-9 - 1 - \frac{1}{3} + 3\frac{x^2}{4} + 4\frac{x^2}{4} - 2\frac{x^2}{4}\right] + \left[19 + 13 - 15\frac{x^2}{4}\right] \\ -32 + 15\frac{x^2}{4} + 32 - 15\frac{x^2}{4} = 0 \end{cases}$$

dle x=0:

$$\theta = \theta_0 + \frac{hc^2}{32K} \left\{ -3a^2 \left[\frac{3}{h^2} + \frac{a^2}{h^2} + \frac{1}{3} \frac{a^4}{h^6} \right] + \frac{a}{h} \left[19 + 13 \frac{a^4}{h^2} \right] \right\}$$

$$\frac{\delta\theta}{\delta h} = \frac{hc^2}{32K} \left\{ 3a^2 \left[\frac{18}{h^3} + \frac{4a^4}{h^2} + \frac{4a^4}{h^2} \right] - \frac{a}{h} \left[19 + 39 \frac{a^4}{h^2} \right] \right\}$$

$$= \frac{hc^2}{32Ka} \left\{ \frac{3a^2}{h^2} \left[\frac{18}{h^2} + \frac{4a^4}{h^2} + \frac{4a^4}{h^2} \right] - \frac{a}{h} \left[19 + 39 \frac{a^4}{h^2} \right] \right\}$$

$$= \frac{hc^2}{32Ka} \left\{ \frac{3a^2}{h^2} \left[\frac{18}{h^2} + \frac{4a^4}{h^2} + \frac{4a^4}{h^2} \right] - \frac{a}{h} \left[19 + 39 \frac{a^4}{h^2} \right] \right\}$$

$$= \frac{hc^2}{32Ka} \left\{ \frac{3a^2}{h^2} + \frac{4a^4}{h^2} + \frac{4a^4}{h^2} + \frac{4a^4}{h^2} \right\} = \frac{5}{8} \frac{hc^2}{Ka}$$

 $\frac{2}{2}\theta = \theta_0 + \frac{2}{12} \left\{ 3a^2 \left[-\frac{4}{2} + \frac{3}{2} - \frac{a^2}{2} - \frac{2}{3} \frac{a^3}{2} + \frac{4a^2}{2} - \frac{2a^3}{2} \right] + \frac{a}{2} \left[19 + 13 \frac{a^2}{2} + 24 - 39 \frac{a^2}{2} \right] \right\}$

$$\left\{-\frac{1}{3} = \left\{3a^{2}\left[-\frac{6}{24} + \frac{3a^{2}}{2^{4}} - \frac{8}{3}\frac{a^{4}}{2^{6}}\right] + \frac{9}{2}\left[43 - 20\frac{a^{2}}{2^{4}}\right]\right\}$$

$$\frac{ac^{1}48}{2k} + \frac{35}{12} = \frac{ac^{1}}{2k} + \frac{83}{12} = \frac{ac^{1}}{2k} (2 + \frac{19}{12})$$

$$\frac{\partial \theta}{\partial x} = \frac{\rho_{0}c^{+}}{32K} \left\{ 3a^{+} \left[+ \frac{18x}{4x} - \frac{12x^{3}}{2^{6}} + \frac{4a^{2}x}{2^{6}} + \frac{4a^{2}x}{2^{6}} - \frac{24a^{2}x^{3}}{4^{5}} + \frac{16a^{2}x^{3}}{2^{6}} + \frac{16a^{2}x^{3}}{2^{6}}$$

$$\frac{1}{100} - \frac{12k^{2}}{100} + \frac{14k^{2}}{100} + \frac{14k^{2}}{100} + \frac{14k^{2}k^{2}}{100^{2}} + \frac{14k^{2}k^{2}}{100^{2}} - \frac{39k^{2}}{100^{2}} - \frac{39k^{2}}{100^{2}} - \frac{39k^{2}}{100^{2}} - \frac{39k^{2}}{100^{2}} + \frac{39k^{2}k^{2}}{100^{2}} + \frac{39k^{2}k^{2}}{1$$

 $= \frac{2}{2} + \frac{3}{12} + \frac{3}{12} \cdot 36 + \frac{3}{12} \cdot \frac{11}{12} + \frac{2}{12} \cdot \frac{3}{12} + \frac{3}{12} \cdot \frac{11}{12} + \frac{3}{$ $+\frac{a}{13} \cdot 29 + \frac{a^{3}}{198} \frac{120}{198} \frac{316}{198} - \frac{ax^{5}}{25} \cdot 22 + \frac{a^{3}x^{2}}{27} \frac{57}{198} + \frac{471}{2} + \frac{15}{29} + \frac{471}{2} + \frac{15}{29} + \frac{471}{29} + \frac{471} + \frac{471}{29} + \frac{471}{29} + \frac{471}{29} + \frac{471}{29} + \frac{471}$ n 30 + 30 + 30 + 30 = 129 a + 30 a x + 203 a − 306 a x + 202 a x 100 +23 0 - 423 0 - 72 0 + 421 0 - 27 0 - 27 0 - 27 0 - 81 0 - 81 0 - 81 + 929 + 15 2x2 42

72

3

4

23

27

J

+9

$$\frac{u \frac{9\theta}{3} + v \frac{90}{7} + v \frac{90}{7} = \sqrt{v} \cdot \sqrt{\theta} \cdot \frac{2}{2} \cos(2v \cdot \sqrt{\theta})$$

$$= \frac{mc^{1}}{32} \times \left\{ \frac{129}{2} \frac{a^{1}}{2^{4}} + 36 \frac{a^{1}}{2^{6}} + \frac{263}{2} \frac{a^{1}}{2^{6}} - 366 \frac{a^{1}}{2^{8}} + 87 \frac{a^{6}}{2^{10}} + 87 \frac{a^{6}}{2^{10}} + 29 \frac{a^{1}}{2^{10}} + 29 \frac{a^{1}}{2^{10$$

$$\Delta^{2}\left(\frac{x}{\lambda}\right) = -2\frac{x}{\lambda^{3}}$$

$$\Delta^{2}\left(\frac{x}{\lambda^{2}}\right) = \frac{x}{\lambda^{4}}$$

$$\int_{-\infty}^{\infty} \left(\frac{x}{2^4} \right) = 4 \frac{x}{26}$$

$$\Delta^{\sim}(\frac{x}{26}) = 18 \frac{x}{28}$$

$$\Delta\left(\frac{x}{28}\right) = 40\frac{x}{210}$$

$$\Delta\left(\frac{x^3}{\sqrt{3}}\right) = \frac{6x}{2^3} + 12 \frac{x^3}{2^5}$$

$$\Delta^{2}(\frac{x^{3}}{2^{3}}) = \frac{6x}{2^{4}} - 12 \frac{x^{3}}{26}$$

$$\Delta^{2}\left(\frac{x^{2}}{2^{5}}\right) = \frac{6x}{2^{5}} - 10 \frac{x^{2}}{27}$$

$$\Delta^{2}(\frac{x^{3}}{2^{6}}) = \frac{6x}{x^{6}} - 6\frac{x^{3}}{2^{8}}$$

$$\Delta^{2} \frac{\chi^{3}}{(27)} = \frac{6\chi}{28} \text{ (A)}$$

$$\Delta^{2}(\frac{x^{3}}{x^{6}}) = \frac{6x}{2^{8}} - 8\frac{x^{3}}{2^{10}}$$

$$O(\frac{2}{29}) = 54 \frac{2}{211}$$
 $A(\frac{2}{29}) = \frac{62}{29} - 18 \frac{2}{211}$

$$A\left(\frac{x^3}{2^{49}}\right) = \frac{6x}{2^{41}} - 44\frac{x^3}{2^{43}}$$

= pot_10(24) t cox = any cox + si poit on 2 Jy p= 1/2+122 #-2Rzux Ar de sin q de. usp

Ar Vr+ R-2 Rr (usp us 4 + 2 9 2 4 us 2) $\int_{a}^{dx} \frac{dx}{\sqrt{1+R^{2}-2Rx\omega_{X}}} = -\frac{\sqrt{1-2R\omega_{X}}}{R^{2}n} + \frac{2R\omega_{X}}{2R^{2}} \int_{a}^{dx} \frac{dx}{\sqrt{1+R^{2}-2Rx\omega_{X}}}$ = 1 by 2RV - (2R2-2R Mussy) $\frac{Q^{-n-2}}{2^{n-2}} = \sqrt{\frac{2^{4-n}}{n}} = \sqrt{\frac{2^{4-n+1}}{2^{n-2}}} = \sqrt{\frac{2^{4-n+1}}{2^{n-2}}}} = \sqrt{\frac{2^{4-n+1}}{2^{n-2}}}} = \sqrt{\frac{2^{4-n+1}}{2^{n-2}}}} = \sqrt{\frac{2^{4-n+1}}{2^{n-2}}} = \sqrt{\frac{2^{4-n+1}}{2^{n-2}}}} = \sqrt{\frac{2^{4-n+1}}{2^{n-2}}} = \sqrt{\frac{2^{4-n+1}}{2^{n-2}}} = \sqrt{\frac{2^{4-n+1}}{2^{n-2}}} = \sqrt{\frac{2^{4-n+1}}{2^{n-2}}}} = \sqrt{\frac{2^{4-n+1}}{2^{n-2}}}} = \sqrt{\frac{2^{4-n+1}}{2^{n-2}}} = \sqrt{\frac{2^{4-n+1}}{2^{n-2}}} = \sqrt{\frac{2^{4-n+1}}{2^{n-2}}}} = \sqrt{\frac{2^{4-n+1}}{2^{n-2}}} = \sqrt{\frac{2^{4-n+1}}{2^{n-2}}}} = \sqrt{\frac{2^{4-n+1}}}{2^{n-2}}} = \sqrt{\frac{2^{4-n+1}}}{2^{n-2}}} = \sqrt{\frac$ -1-2 24-0 X = -1-2 X X

$$\frac{\partial_{1}(x)}{\partial x} = -\frac{x}{\Lambda_{1}} + \frac{3x^{2}}{2x^{5}}$$

$$\frac{\partial_{1}}{\partial x} = -\frac{A}{\Lambda_{2}} + \frac{3x^{2}}{2x^{5}}$$

$$\frac{\partial_{2}}{\partial x^{5}} = -\frac{3x}{\Lambda_{5}} + \frac{6x}{\Lambda_{5}} - \frac{15x^{3}}{2^{7}} = \frac{3x}{2^{5}} - \frac{15x^{3}}{2^{7}}$$

$$\frac{\partial_{1}}{\partial x} = -\frac{3}{\Lambda_{5}} + \frac{6x}{\Lambda_{5}} - \frac{15x^{3}}{2^{7}} = \frac{3x}{2^{5}}$$

$$\frac{\partial_{1}}{\partial x} = -\frac{3}{15} + \frac{15x^{2}}{2^{7}} + \frac{30x}{2^{7}} - \frac{3.5 \cdot 3 \cdot x^{3}}{2^{7}} = \frac{45x}{2^{7}} - \frac{105x^{3}}{2^{7}}$$

$$\frac{\partial_{1}}{\partial x^{5}} = -\frac{\partial_{1}}{\partial x^{5}} + \frac{\partial_{1}}{\partial x^{5}} + \frac{45x^{5}}{2^{7}} + \frac{30x}{2^{7}} + \frac{30x}{2^{7}} + \frac{30x}{2^{7}} + \frac{30x}{2^{7}} + \frac{25x^{7}}{2^{7}} + \frac{45x^{7}}{2^{7}} + \frac{25x^{7}}{2^{7}} + \frac{25x^{7}}{2^{7}}$$

13 X 23 7y2

$$\frac{\partial}{\partial x} \left(\frac{x}{2} \frac{\partial}{\partial y} 2 \right) = \frac{1}{12} \frac{\partial}{\partial y} 2 - \frac{3x^2}{45} \frac{\partial}{\partial y} 2 + \frac{x^2}{45}$$

$$= \frac{3x}{45} - \frac{6x^3}{47} - \frac{6x}{25} \frac{1}{120} 2 + \frac{15x^2}{47} \frac{1}{120}$$

$$= \frac{3x}{45} - \frac{6x^3}{47} - \frac{9x}{25} \frac{1}{120} 2 + \frac{15x^2}{27} \frac{1}{120}$$

$$= \frac{3x}{45} - \frac{6x^3}{47} \frac{1}{120} 2 + \frac{x^2}{45}$$

$$= -\frac{3x}{45} - \frac{1}{125} \frac{1}{120} 2 + \frac{x^2}{45}$$

$$= -\frac{3x}{45} - \frac{1}{125} \frac{1}{120} 2 + \frac{15x^2}{125} \frac{1}{120} 2 + \frac{x^2}{45} - \frac{5x^2}{47}$$

$$= \frac{x}{45} - \frac{6x^2}{45} - \frac{3x}{45} - \frac{15x}{45} \frac{1}{12} 2 + \frac{15x^2}{12} \frac{1}{12} 2$$

$$= \frac{x}{45} - \frac{6x^2}{45} - \frac{15x}{45} - \frac{15x}{45} \frac{1}{12} 2 + \frac{15x^2}{12} \frac{1}{12} 2 + \frac{15x^2}$$

$$\frac{2}{2x} \left(\frac{x}{25} \right) y^{2} \left(\frac{x}{25} \right) y^{2} \left(\frac{x}{25} \right) y + \frac{x^{2}}{27} \left(\frac{15x}{27} \right) y + \frac{35x^{2}}{27} \left(\frac{1}{27} \right) y + \frac{2x}{27} - \frac{7x^{2}}{27} \right)$$

$$-\frac{5x^{2}}{27} \left(\frac{1}{27} \right) y + \frac{x^{2}}{27} + \frac{35x^{2}}{27} \left(\frac{1}{27} \right) y + \frac{5x^{2}}{27} + \frac{2x}{27} - \frac{7x^{2}}{27} \right)$$

$$-\frac{25 \times 2}{27} \int_{y} 2 + \frac{35 \times 2}{27} \int_{y} 2 + \frac{5 \times 2}{27} - \frac{12 \times 2}{27}$$

$$= \frac{10 \times 2}{27} \int_{y} 2 - \frac{7 \times 2}{27}$$

$$\frac{3x^{2}}{n^{2}} ly - \frac{7x^{4}}{n^{2}} ly + \frac{x^{4}}{n^{2}} ly - \frac{49x^{3}}{n^{2}} ly + \frac{163x^{5}}{n^{2}} ly + \frac{3x^{3}}{n^{2}} ly + \frac{4x^{3}}{n^{2}} - \frac{9x^{5}}{n^{2}} ly + \frac{2x^{3}}{n^{2}} ly +$$

$$X = \frac{6x}{27} y_2 + \frac{2}{19} - \frac{7x^3}{19}$$

$$\frac{x^3}{19} = \frac{6x}{7n^7} y_2 - \frac{3}{127} y_2 - \frac{x}{19} \frac{x}{19} = \frac{1}{10} \frac{x}{100}$$

$$\frac{x}{19} = \frac{10x}{7n^7} y_2 - \frac{x}{127} y_2 - \frac{x}{127} y_2 = \frac{1}{100} \frac{x}{100}$$

$$\frac{x}{19} = \frac{10x}{7n^7} y_2 - \frac{x}{100} \frac{x}{100}$$

$$\frac{x}{19} = \frac{10x}{7n^7} y_2 - \frac{x}{100} \frac{x}{100}$$

$$\frac{x}{19} = \frac{10x}{7n^7} y_2 - \frac{x}{100} \frac{x}{100}$$

$$\frac{x}{19} = \frac{1}{100} \frac{x}{100}$$

$$\frac{x}{100} = \frac{1}$$

$$\frac{5x^{3}}{\sqrt{9}} = \Delta^{2} \frac{3}{\sqrt{10}} \frac{x}{25} + \frac{3x}{725} lyr - \frac{5x^{3}}{727} ly^{2}$$

$$\frac{x^{3}}{\sqrt{9}} = \Delta^{2} \left(\frac{3}{50} \frac{x}{\sqrt{25}} + \frac{3x}{3575} lyr - \frac{x^{3}}{727} lyr \right) = \Delta^{2} \left(\frac{3x}{575} \left[\frac{1}{10} + \frac{2y^{2}}{7} \right] - \frac{x^{3}}{775} lyr - \frac{x^{3}}{727} lyr \right)$$

$$\frac{x}{\sqrt{25}} = -\frac{1}{3} \Delta^{2} \left(\frac{x}{\sqrt{25}} ly^{2} \right)$$

$$\frac{\partial u}{\partial x} = \frac{\partial u}{\partial x}$$

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$$\frac{\partial u}{\partial x} = A \stackrel{$$

$$\frac{\partial b}{\partial u} = B = \frac{a^{2} \left[a^{2} + e^{2} - b^{2} \right] m \text{ to } + ab \text{ m. in.}}{a} = \frac{a^{2} A^{2}}{a} = \frac{2ax}{1 + a^{2} 2ex} \sqrt{A}$$

$$a = b$$

$$bx + ct = 2ex x - f^{A}$$

$$a = 2a$$

$$c = -4y$$

$$4a^{2}B = a^{2}A^{2}$$

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O ile wyorkanie ciepta northuji jungady smie! Jodx = x A2 [= 2ax [d + sin 2(ax-yt)] dx = = a A2 [= lax + e sin 2 xx ugyt - e 2xx sigt] dx Je sing dy = - = 2 sing + Je any dy = 1 $\int_{e}^{-2\alpha x} 2\alpha x dx = \frac{1}{2\alpha} \cdot \frac{1}{2} = \frac{1}{4\alpha}$ $\int_{e}^{\infty} - 2\alpha x \, dx = \frac{1}{2\alpha}$ $\int \Phi = \chi^2 A^2 \left[\frac{1}{2\alpha} + \frac{1}{4\alpha} w y t - \frac{1}{4\alpha} w y t \right]$ = a A2 [2+ myt- night] = a A1 [A sight singt the singt Wig - supreporting purgod, grans

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Cuyblini- lle molyt under inn military: $\rho \frac{\partial u}{\partial t} = -\frac{\partial t}{\partial x} + \frac{\partial t}{\partial x} \frac{\partial hi}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial t} = -\frac{\partial t}{\partial x} + \frac{\partial t}{\partial x} \frac{\partial hi}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial t} = -\frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial hi}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial t} + \rho \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial t} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial t} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial t} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial t} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial t} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial t} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial t} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \mu \Delta^{2}h$ $\rho \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x$

Tolobrista dynam. dla poshujh moli : Be de 2 il rom ~ Major $b = \alpha \frac{m}{n} = \frac{bn}{n}$ $m = \frac{n}{n}$ $\int \frac{2\pi}{n} \int \frac{2\pi}{n} \frac{2\pi}{n} = 1$ $\int \frac{2\pi}{n} \frac{2\pi}{n} = 1$ $m = \sqrt{m/3}$ l = 1 m 6 = Pm -... /xe. h A A A Di=-1 对一[资料+ 3 型+]+ Thi = [2] H - [2.34 do St do = -= - /2 3h do E zmilnu tylko v kiermku n | 35 = 36 th co un juliana ishijan

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forderer Ph =0 Journe Va so (proposycralia) 2 stem tokie predkom powiew him over jok joby U byto poten engle predkom: is remain vierey by drag vornames na Il pu had 2 stem opthisone pres まこりか 中一种, 3 = n To N/~ 37/10 第= ハヤッ / 1 = word. u ~ 34 portenden ette. while it betwee at the potenty I posedhois alla now Madking prot to the fire Crayjunge U. Pi-4a jehr futung pydkom Atolini otorynnys rig pydkoni objavidnie jezeto styvene! na porserskui i spetnimi romai hydr. binge pa const. [ale per to 20!] Sichy otragnac jetnak niemhomori dla roa trubah myenomi rozvopranie e nuch - 4:-4e 24 dla z=00 sporaynek dla z=0

nienskus

t.j. Tala v cheray primse try ni 2 popularia 2 de cirmine: $f = \frac{\varphi; -\varphi_e}{40 \text{ yr}} \left(\frac{5\ell}{8^{\times}} \right) \frac{\chi}{2^3}$

Energia 2 usyta: I= m[29/30 7 -]+ (By + 32 2 + - }7 John Laby 519 24 + 30 = 2 2 dy 32 fax=-f+2m ox =-f+2m x 3/21 1 xx = m (3x + 3x) = 5 m x 3x m px = - p work + 2 px [3k work + 3k wory + 3k wo n2] JAX = 2 ma / [du conx+---] do 1 3x conx + 34 cony + = 1 3n 3x do ryadkovi colutiur na kuly s kienneke X = 4th 2 pa & 3th do Jonieros jednok 31 =0 volhis coly jordenden' note Fro : JUPU do Hon do Coxy Proce posenduriosa (pa (pa. u+ py. v + pe. v) do

101 Dwa kagiki po abbiejtu niz w ciusy lyknj - X Badami houvendorone: u= um42(5-2, Inda = um. 25 Nescolensii: $2 \times \frac{d\delta}{dt} = \int u \, dz = \frac{2}{3} \int u_m$ $M_{\rm m} = 3 \times \frac{dS}{F} = \frac{3 \times .c}{S}$ M= 12.x 2(6-2).c n Dh = 3x = - 24, xc n p = - 12 x c/ + unt 1 = -12 (62-x2) 4 + 10 Ja da = 12.cm 2 63- 83 = 16.83 cm

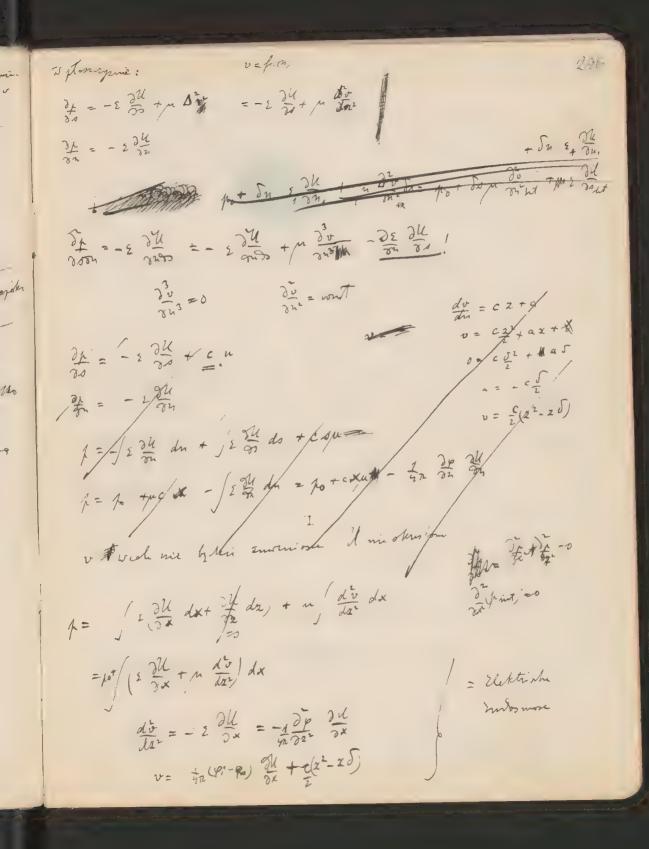
2 anishy of missil dodothow polodega 2 sity organizany press : na sistile same nosi so il moria. 34 = - 8 3H + M AM oby hie 8 2 t = - E 3 ll + m 12 m 34 = - 2 34 + 1 12 2 = - E DK + 1 D20 7 = - 2 dl + M D's Die for set of of to I amush the normaling = f 2 of do + TE P'll dedy de il ty lo o the any]

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tij dle Endormony dektr. = 0 satur project more mic Maxima; Vissina & Mo ne pains his worsty i pouver or D' =0 tokin te golve 2 20 ige vojele Noveman Timmen tjike v nisk. Ilo na join him (met) ant. T = t 1- FE THE K ing the scrang in . 1=10- 3 1-68 x = 10-3 1-69 mg $\Delta^2 v_{k} = \frac{3}{2} \frac{cq}{2} = 0$ 2x = 12 x = + 2 x = my



Romani zasadni se dla zjanska ohro tugo: Itronny strome 1211 =0 vong dais a vyje tkim aparigue john stringe 1 Na ty poviesachini bydaie 2 3il = 2 3u + E by Office womann vog derk voine div 1 7 1 + 20 70 $\lambda \nabla^2 u + \frac{3}{8x} (2u) + \frac{3}{8y} (2v) + = 0$ =-472 を+ルラシャルラチーコを 2.024 + u / + v 2 + v 3/2 = 0 = Dz - 32 Dt - 37 In = - in the The + A Die = DE v robbader $\frac{dx}{dx} = \frac{dy}{w} = \frac{dz}{w} = \frac{dz}{4\pi\lambda z}$ x- x a3 2-22) itonfugslinier 472 log E = dix 2 ston & parkage thing proper 2' 1-12-23 E = Eo e FRA Jan

Wire jids & stani naugutu & i tem aparadypu W Andy w tarre who mornami: XPU + 6 35 1 0 35 12/25 + dis [2 ∇(U-W) + Ev]=0 1 02 11 + 11 3/2 + 1 8 + 1 2 = -42/2 = -42/2 E girls puttoni me sandto dese story mind the 2 stem : 42 y (E'-E) + M 3E + W 3E + W 3E =0 4221 = 1 2 + 1 25' + 1 25' + (1 25 + 1 25 + 1 25) pot &= pot 2' + pot 1 2 atem: U= U'+ WV - I $pot v = \frac{r}{n} \frac{2}{n} dv = \frac{1}{n} \frac{1}{n} \left[\frac{3\xi'}{3x} + \frac{1}{n} dv \right]$ mylkrienin Ja $=\frac{1}{4\pi\lambda}\int \frac{\partial x}{\partial x} \frac{\partial E}{\partial x} dx = \frac{1}{4\pi\lambda}\int \frac{do}{2}\int \frac{dx}{2} dx \cdot \frac{\partial E}{\partial x}$ 2n = 2no + 5no 32n = 5no 32n $\int \frac{2^2 \partial \Sigma'}{1 - 32} dz$ $= \int \frac{\partial^3 \mathcal{U}}{\partial x^3} \frac{2^2 dx}{x^2}$ = 32 = / 32 2d2 = 24

zanduboj; , es prande tytho jish V 2= 11+V+ D V= 422 / 24. do 24 = - 2 24 + 1 1 3h 200 + 200 200 mg # 422 12 8h do sotion V. Adright wrongrammbyler: V = 9:-90 p ottetula transformacya Tylko jul. The = Et tij july on so Texnerg: Va porter him: jule solo irolysu by his?: 2 aten 2 (V+) =0 2 2(U-U) =0 A DK = Dk pro estama in Sign = Dis. !!! Late: Fin = 1 de + E de disse yellood & In, me of s, t T = 4:-90 / 2 on do + 9:-90 / 2 2 on do vs=-u = +v +=-usin ++vast marquarie matin: =- C NU [1-3 2-4 2] $\overline{V} = \frac{\varphi - \varphi}{4\pi \lambda \mu} p + f(2)$ 300 = - CX B[3 22 + 3 20] 20 - 5 END [1 3227) 1 = + c sub [3 4 + 3 0 25]

To tanty worksader U= U' +V + \$\phi\$

an one rate U'2 pot. worken produc (N orbis)

= seventum potung of

V = smiana vokutok zuchu muchan.

$$\begin{aligned}
\mathbf{q} &= -\frac{1}{4} \cdot \frac{a^{2}}{2} \left(1 - \frac{a^{2}}{2} \right) \cdot n^{2}\theta + c \left(1 - \frac{1}{4} \cdot \frac{a^{2}}{4} - \frac{a^{2}}{4} \cdot \frac{a^{2}}{2} \right) \\
\mathbf{q} &= -\frac{1}{4} \cdot \frac{ca}{2} \left(1 - \frac{a^{2}}{2} \right) \cdot n^{2}\theta - \theta \\
\end{aligned}$$

$$\begin{aligned}
\mathbf{v}_{n} &= u + v + v = u = u \cdot u\theta + v \cdot n\theta \\
&= -\frac{1}{4} \cdot \frac{ca}{2} \left(1 - \frac{a^{2}}{2} \right) \cdot n^{2}\theta + c \cdot u\theta \left(1 - \frac{1}{4} \cdot \frac{a^{2}}{4} - \frac{1}{4} \cdot \frac{a^{2}}{2} \right) \\
&= c \cdot u\theta \left[1 - \frac{1}{4} \cdot \frac{a^{2}}{2} - \frac{1}{4} \cdot \frac{a^{2}}{2} - \frac{1}{4} \cdot \frac{a^{2}}{2} + \frac{1}{4} \cdot \frac{a^{2}}{2} \right] \\
\end{aligned}$$

$$\begin{aligned}
\mathbf{v}_{n} &= c \cdot u\theta \left[1 - \frac{1}{4} \cdot \frac{a^{2}}{2} - \frac{1}{4} \cdot \frac{a^{2}}{2} - \frac{1}{4} \cdot \frac{a^{2}}{2} \right] \\
\end{aligned}$$

$$\begin{aligned}
\mathbf{v}_{n} &= c \cdot u\theta \left[1 - \frac{1}{2} \cdot \frac{a^{2}}{2} + \frac{1}{4} \cdot \frac{a^{2}}{2} \right] \\
\end{aligned}$$

$$\end{aligned}$$

$$\begin{aligned}
\mathbf{v}_{n} &= c \cdot u\theta \left[1 - \frac{3}{4} \cdot \frac{a^{2}}{2} + \frac{1}{4} \cdot \frac{a^{2}}{2} \right] \\
\end{aligned}$$

$$\end{aligned}$$

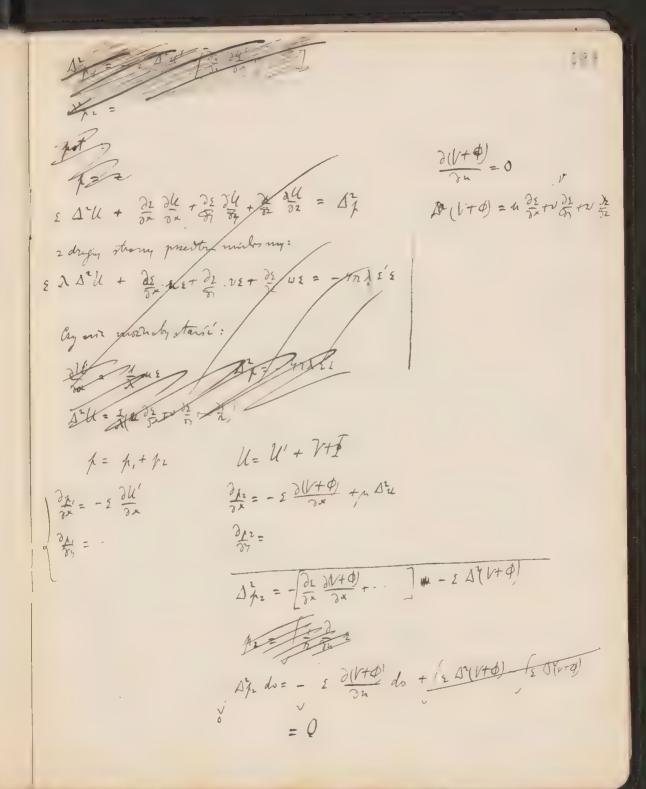
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 $=\frac{1}{2}\frac{\partial r}{\partial \theta} \frac{\partial \theta}{\partial x} = \frac{3}{2}\frac{ca \sin \theta}{r^3}$

Lornanie mechanisme h sterni spo zyrku: il= il' + \$ = intito siz years 2 sometim = - 000. 7 ST = 5 SX = 7 3/1 2 = - 1 2k + p D'n] 3 + = - 1 3k + 1 A2 3/2 = - 5 3/2 + m Du Di = - 10 1 24 + 25 34 + - 2. 5 M. dv And Dy. du = -= - \(\frac{3U}{2n} \). do - 1 3/4 do + / 1 5 1/4 du $= -\frac{1}{2} \frac{\partial u}{\partial x} ds$ Roskyi :/ 1= R. of Him



Isko get vorton D'es pry posambin i Cy ione To ? 12 vo = 2 + 2 + 2 + 2 + 2 + 10) 20= -c sind [4/- 3 a - 7 a) $\frac{\partial}{\partial a} \quad \forall_{2\theta} = -c \sin \theta \left[\frac{3}{4} \frac{a}{2} + \frac{3}{4} \frac{a^3}{2^4} \right] \qquad \left[\frac{1}{2} - \frac{3}{2} \frac{c \sin \theta}{a} \right]$ $\frac{3^{1}}{3^{1}} v_{10} = + c \times \theta \left[\frac{1}{2} \frac{a}{2^{3}} + \frac{1}{3} \frac{a^{2}}{2^{5}} \right] = \frac{9}{2} \frac{c \times \theta}{a^{1}}$ V = (1+9 0 = c (1+9 02+ 1 06 - 2 0 - 2 0 - 2 0 + 2 0) 450 = = 1

Upon von rodenin; o prestrum serretirny u, v, v tok jek vier i dedra Edk = Man 2 34 = 1- 10 Tomis met more sig spelmi Lor = M OW to mosey mostly my die by! u= \(\frac{2}{4\pi \tau} \) do + 4 E DU + (25 24 -) -0 $=\frac{1}{4\pi}\int\frac{\partial \mathcal{U}}{\partial x}\,do\int\frac{\mathcal{E}}{\hbar}\,d\mathbf{n}+\frac{1}{4\pi}\int\frac{\partial \mathcal{U}}{\partial x}\,do\int\frac{\mathbf{s}}{\hbar}\,d\mathbf{n}$ E 3H = M A By = M Just Just + Just + Just $\int dz \ z \ \frac{\partial \mathcal{U}}{\partial x} = \frac{\partial \mathcal{U}}{\partial x} + \frac{1}{2} \int \frac{\partial \mathcal{U}}{\partial x} \ z \ dx = \frac{1}{2} \int \frac{\partial \mathcal{U}}{\partial x} \ dx$ $=\frac{1}{4\pi}\frac{\partial U}{\partial x}\left[\frac{\partial \varphi}{\partial x}-\frac{\partial \varphi}{\partial x}dx\right]=\frac{1}{4\pi}\frac{24}{24}(\varphi,-\varphi_0)=\frac{1}{4\pi}\frac{1}{2}\frac{\partial \varphi}{\partial x}dx$ = N 2 2 - / 2 d2] + + $\varphi f dx = f_M \cdot \int \varphi dx$ + (302) = = + (3x) = = 12 2 dz = [N] - V] $= \delta \cdot M \left(z \frac{\partial v}{\partial z^2} \right)$ = 完 从你 $= \frac{\partial v}{\partial z} / M(z) = \frac{\partial v}{\partial z} / M(z)$

v ugni 1: 3h more by morane so take a porimedure zo plachy 1: vinice we toke med wohy her Sie ref. (1, t) n= the out of do find on + the find of Edu + 4 Add the state of t $\left(\frac{2n \rho d\rho}{\sqrt{x^2 + \rho^2}} = \frac{1}{2n\sqrt{x^2 + \rho^2}} = \frac{2n\sqrt{x^2 + \rho^2}}{\sqrt{x^2 + \rho^2}} = 2n\sqrt{x^2 + \rho^2} = 2n\sqrt{x^2 + \rho^2}$ 22 Jag (18+2 -x, 1 dx 26 = \frac{1}{24} \left[\begin{picture}(\text{R}^2 + \text{x} - \text{x} \right] - \frac{1}{2} \right] \frac{1}{24} \left[\text{R} + \text{x} \cdot - 1 \right] dx = { [24 () R+x -x) - R 24] - 1 Vアチャー x= R(1+はで・一葉)= Rー以+を変

 $\sum_{n} \sum_{n} \frac{1}{2n} = \frac{1}{4n} \sum_{n} \frac{1}$ Whordyn rosik voine: = 9-4: - 8: - 8. (to systatery do u 20 = 1/2 (xi-40) 2/4 I oznacemia pomiesti & unin prestrain bydrie A 4 4 6 42 0 54 54 54 L +-) Ale to woine types just recay sisin u= 34 U= takie rancamie jednozno smi mostive to me vider jean ay Ay are Abodowe of oriednin. Oz and mino topo sampo vrewsiewo ungé po sojohnejsej propoladsie A*ヤル = ラヤ·ナ(大海)シュ of =- E dl + u sion an = - 4 sp 34 + 1 2 m h = - 42 20 20 + 1 30 + mont to not vytoney jihak do $\int_{1}^{2} dz = -\frac{1}{4\pi} \left(\frac{2i}{\pi} + \mu R_{n} + 2 \cdot m + m + 1 \right)$ masen's rache to teres many A2 = - 3/2 th. 1 da = = 4 - 9: 34 + n #(2,5 - vno) + 5. cont 1 Dn = 12-p; 34 mons = 90-9: 24

Cay malion workfad u= 4,+42 U = V, + UZ U = W, TWZ Takie in pr=0 poeavorotos 34 + 8 34 = m Dun 2+2 = n 12/12 3 = n 12 = 3/1 + 2 3/4 = n 5 4, 7 + 2 2 2 2 n Dw. 3/2 = M 12 W2 pore varotnez musielby to i making by deli one worm justi pydelini na parier hui tolkie jokie A y =0 = 2 ; AAdo aspensologe za danin jetineyolnem. Codo predkon normalnyh and the the the the the the many ν₁ = $\frac{\partial y}{\partial h} = \frac{\varphi_{0} - \varphi_{0}}{4\pi \mu} \frac{\Im U}{\partial h}$ | Ship soini 1 $\frac{\Im U}{\Im h}$ - ο to by by & Na =0 To pravda bo en kelie do zant dhance v joronnani i mappedhoriani its summi juile of distate since mode 9/2 = 2/6+ 2 | 30/6 + 2 | 50/6 | va do of bedie & stanker S: 6 portuei rimani uzglini: v. 8=0p. 5 Du: Of = 5:6

$$\Delta_{(N)}^{2} = \frac{1}{2} \left[\frac{3}{2} (n_{N} + \frac{1}{2 \sin \theta}) + \frac{1}{2 \sin \theta} \frac{3}{2 \theta} \right] + \frac{1}{2 \sin \theta} \frac{3}{2 \theta} \right]$$

$$2 = 2 + \sqrt{2}$$

$$\Delta_{(N)}^{2} = \frac{1}{2} \left[\frac{1}{2} (2 + 2 \times \theta) + \frac{1}{2 \cos \theta} \frac{3}{2 \theta} \right] + \frac{1}{2 \cos \theta} \frac{3}{2 \theta} \right]$$

$$= \frac{1}{2} \left[(2 + 2 \times \theta) + \frac{1}{2} \frac{3}{2 \theta} \right]$$

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$$= \frac{1}{2} \left[(2 + 2 \times \theta) + \frac{1}{2} \frac{3}{2 \theta} \right]$$

$$= \frac{1}{2} \left[(2 + 2 \times \theta) + \frac{1} \frac{3}{2} \frac{3}{2} \frac{3}{2} \right]$$

$$= \frac{1}{2} \left[(2 + 2 \times \theta) + \frac{1}$$

 $=\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 v}{\partial x^2} + \frac{\partial^2 v}{$

a py Akrami fa z dz i lin. of dag inn yestara rate où resultat by der s'ishe voing. v_s = <u>Ui-U.</u> <u>∂U</u> = <u>Ui-U.</u> ∂ ∂ V+ Ø) MM is sorthree 5 views V & holar grande make a foromando 4:-40 vos = 9:-4 3 (V+\$) = 4:-40 14 - 30] V = 40-40 p + fa v welling office 3000 Zoten radanie: VI =0 (de = n Va vo = 4:- 6: 16: 6: 5 + 32 マ まニーアン 12 /=0 ornaraje 4:-4 pres y Tot vormer premiary vo = 4:-40 24 dotgo vno=0 2 ate felsie vorvezanie mostore p=PP. ogoling: 8 = 4:-4. 7 4 + 10. don't = m Vino 2 mg He torine

Loten 22 ggs dla dango kostallu jainshi uti, neny reme poten galine prevoluitio echtyronyo i tariso vertingo vo moha mpaparai : 10 = 8:-40 DV + 10. dane do vio desolve bede : cos vienis pa pa potency of diservoirony eletitionaty arise A let gle anometry orme i= 2 P(ik-U') + 20 = 1 7 (V+ \$) + EV Jindu = 1 Jon (V+0) des + / 1/2 2 2 2 des $= \int \frac{ds}{4\pi} \int \frac{\partial e}{\partial z^2} 2 \left(\frac{\partial v_3}{\partial z} \right) dz$ = \ \frac{ds}{40} (\frac{1}{2} - \frac{1}{2}) \left(\frac{2\pi}{2\pi} \right) A down not is dry - polovenin is there in bandas dure

$$\begin{cases} v \frac{21}{2x} = \rho_{g} - \frac{2x}{3x} + \frac{x}{3} \frac{2}{2x} div + / x = \Delta^{12} \\ \frac{2\rho u}{2x} = 0 \end{cases}$$

$$v \frac{2p}{2x} + k + \frac{2w}{3x} = (k-1) \sqrt{\frac{4}{3} (\frac{2u}{3x})^{2}} + (\frac{2u}{3y})^{2} + (\frac{2u}{3x})^{2} + (k-1) \times (\frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3})$$

$$\frac{2u}{3x} = \frac{d^{2}}{dx} \frac{x}{2} + \frac{du}{dx} \frac{1}{x} - \frac{du}{dx} \frac{x^{2}}{2^{3}}$$

$$\frac{2u}{3x} = \frac{d^{2}}{dx} \frac{x}{2} + \frac{du}{dx} \frac{1}{x} - \frac{du}{dx} \frac{x^{2}}{2^{3}}$$

$$\frac{2u}{3x} = \frac{d^{2}}{dx} \frac{x^{2}}{2x} + \frac{du}{dx} \frac{1}{x} - \frac{du}{dx} \frac{x^{2}}{2^{3}}$$

$$\frac{2u}{3x} = \frac{d^{2}}{dx} \frac{x^{2}}{2x} + \frac{du}{dx} \frac{1}{x} - \frac{du}{dx} \frac{x^{2}}{2^{3}}$$

$$= \frac{1}{x} \frac{2}{3x} (2x)$$

$$\frac{2u}{3x} = \rho_{g} - \frac{2h}{3x} + \frac{4h}{3x} \frac{3u}{3x} + \frac{2u}{3x} + \frac{2u}{3x}$$

$$= \frac{1}{x} \frac{2}{3x} (2x)$$

$$\frac{2u}{3x} + k + \frac{2u}{3x} = (k-1) \sqrt{\frac{4}{3}} (2x)^{2} + (2x)^{3} + (k-1) \times (\frac{3u}{3x} + \frac{1}{x} \frac{2u}{3x})$$

$$\frac{2u}{3x} + k + \frac{2u}{3x} = (k-1) \sqrt{\frac{4}{3}} (2x)^{2} + (2x)^{3} + (2x)^{3}$$

Wromanin termianen. ルシャルサインサインサイトのではサデナショー(K-1) 五十(K-1) K Aは co podrodni z vierto desaryo? cp (1 2 + 1 2 + 1 2) = c [2 (pu d) + 2 (pv d) + -] - c d [2 (pu) + 2 (pv d) + -] = = = [] ((u) +] ((v) +] ((v)) Orionge co trynotoly in: = = = = 1 1 1 2 + 2 3 + 1 3 + 1 [ox + ox + ox = (k-1) K. A d たいま+ のまかかかり+ なり(シュナサガン=(k-1) x. Are Wige tatoj przypodek posredni, mijdzy ev i cp. 3x + 3x + 3(pu) =0 1 ox = / 2 div + 1 1 2 m 1 = Pg +/3 2 div + 1 1 w First of Enoune to pay english graded termo konserhagings 2miany w p hole pravi vyta snie porhodnit, 2 emiany w d moine rate stavil

 $p = p_0(1 - \alpha \theta)$

A div # = a po [u
$$\frac{2\theta}{2x} + v \frac{3\theta}{5} + v \frac{3\theta}{52}]$$

Let $\frac{1}{2x}$ div = $\frac{1}{2x}$ $\frac{3\theta}{2x} + \cdots + u \frac{3\theta}{2x} + \cdots$

Supornize type crossowo, in to mole v obte $\frac{1}{2x}$ $\frac{1}{2x}$.

 $\frac{2t}{2x} = \int_{1}^{1} \frac{d^{2}u}{dx} dx$
 $\frac{2t}{3x} = \int_{1}^{1} \frac{d^{2}u}{dx} dx$
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 $\frac{2t}{3x} = \int_{1}^{1} \frac{d^{2}u}{dx} dx$

Oververmerove 20 danse poorline:

$$u \frac{\partial f}{\partial x} + v \frac{\partial f}{\partial y} + k \int_{1}^{\infty} \frac{\partial h}{\partial x} + \frac{\partial f}{\partial y} = (k-i) \times (\frac{\partial^{2} h}{\partial x} + \frac{\partial^{2} h}{\partial y^{2}})$$

$$\frac{\partial f}{\partial x} + v \frac{\partial f}{\partial y} + k \int_{1}^{\infty} \frac{\partial h}{\partial x} + \frac{\partial^{2} h}{\partial y} = (k-i) \times (\frac{\partial^{2} h}{\partial x} + \frac{\partial^{2} h}{\partial y^{2}})$$

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$$\frac{\partial f}{\partial x} + v \frac{\partial f}{\partial y} + k \int_{1}^{\infty} \frac{\partial h}{\partial x} + \frac{\partial f}{\partial y} = (k-i) \times (\frac{\partial^{2} h}{\partial x} + \frac{\partial^{2} h}{\partial y})$$

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$$\frac{\partial f}{\partial x} + v \frac{\partial f}{\partial y} + k \int_{1}^{\infty} \frac{\partial h}{\partial x} + \frac{\partial h}{\partial y} = (k-i) \times (\frac{\partial^{2} h}{\partial x} + \frac{\partial^{2} h}{\partial y})$$

$$\frac{\partial f}{\partial x} + v \frac{\partial f}{\partial y} + k \int_{1}^{\infty} \frac{\partial h}{\partial x} + \frac{\partial h}{\partial y} = (k-i) \times (\frac{\partial h}{\partial x} + \frac{\partial h}{\partial y})$$

$$\frac{\partial f}{\partial x} + v \frac{\partial h}{\partial y} + k \int_{1}^{\infty} \frac{\partial h}{$$

heyfryd.

Cry jut johi met mostry v an as pn 2 + 3x = 1 3 3x (3x) + 1 Du 歌 = 生子(元) 第二分录 强 2(on) = 0 $\mathbf{n} = (k-1) \left[+ \frac{3}{3} \mathbf{n} \left(\frac{\partial \mathbf{n}}{\partial x} \right)^2 + \left(\frac{\partial \mathbf{n}}{\partial y} \right)^2 + \left(\frac{\partial \mathbf{n}}{\partial y} \right)^2 \right] + (k-1) \mathbf{n}$ Cay just morling up p= po + / 3 8x ph Ju = n 1 - du pudu = n Du いかナッチャッチャッチ= 作「いるいないナー」ナル「いかいナング」 $=\frac{3x}{3}\left(n\frac{3x}{3n}\right)-\left(\frac{3x}{3n}\right)_{+}+\frac{3\lambda}{3}\left(n\frac{3\lambda}{3n}\right)-\left(\frac{3\lambda}{3n}\right)_{+}+\cdots$ = 1 A (1 + 1 + 1) - [3 1 + 1 3 1 + + 1 2 + -] 3+ = 1 4 (3m + 34) } 12 + 34-00 第二人(景楼) 如漫样的

$$\frac{\partial f}{\partial x} = \frac{f}{f} \frac{1}{2} \sin t \cos u$$

$$\frac{\partial f}{\partial x} = \frac{f}{f} \sin t \cos t \cos u$$

$$\frac{\partial f}{\partial x} = \frac{f}{f} \sin t \cos t \cos u$$

$$\frac{\partial f}{\partial x} = \frac{f}{f} \sin t \cos t \cos u$$

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$$\frac{\partial f}{\partial x} \cos t \cos t \cos u$$

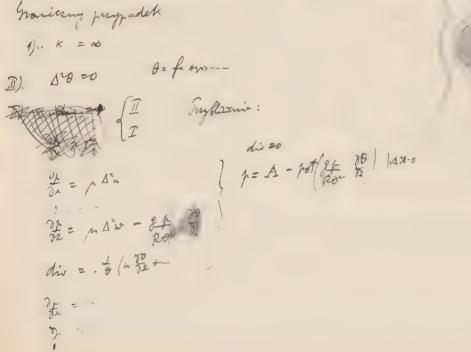
$$\frac{\partial f}{\partial x} \cos t \cos t \cos u$$

$$\frac{\partial f}{\partial x} \cos t \cos u$$

$$\frac{\partial f}{\partial x} \cos t \cos u$$

$$\frac{\partial f}{\partial x} \cos u$$

$$\frac{\partial f$$



I. Cuplimie:

$$div = \frac{1}{2} \left(\frac{\partial \mathcal{L}}{\partial x} + v \frac{\partial \mathcal{L}}{\partial y} + v \frac{\partial \mathcal{L}}{\partial z} \right)$$

$$K\Delta^{2}\theta = \frac{k}{k-1} p dio$$

$$\Delta^2(\kappa^2) = 6$$

$$T = \frac{\pi}{n} / \omega_{\alpha} = - \Im T_{\alpha_{f}}$$

$$\Delta \phi_1 = -\beta T n, \frac{z}{\gamma^3} \qquad \phi_1 = \frac{\alpha z}{2\pi}$$

$$p_1 = a 2 \left[A + \frac{1}{22} + \frac{B}{23} \right] + \frac{C}{28}$$

$$\Delta^{2}u_{1} = -\alpha 2 \times \left[\frac{1}{2x^{3}} + \frac{3B}{x^{5}}\right] - \frac{Cx}{x^{3}}$$

$$\Delta^{2}u_{1} = -\alpha 2 y \left[\frac{1}{2x^{3}} + \frac{B}{x^{3}} \right] - \frac{Cx}{x^{3}}$$

$$\Delta^{2}u_{1} = +\alpha \left[A + \frac{1}{2x} + \frac{B}{x^{3}}\right] - \frac{Cx}{x^{3}} - \alpha 2^{2} \left[\frac{1}{2x^{3}} + \frac{3B}{x^{5}}\right] + -\alpha \left[\frac{A}{x^{2}}\right]$$

$$= \alpha \left[A + \frac{A}{x^{2}} + \frac{B}{x^{3}}\right] - \frac{Cx}{x^{3}} - \alpha x^{2} \left[\frac{1}{2x^{3}} + \frac{3B}{x^{5}}\right]$$

$$u_{1} = \alpha \times x \left[\frac{1}{8x} + \frac{B}{2x^{3}}\right]$$

$$v_{1} = \alpha \left[\frac{A}{x^{2}} \left(2x^{2} - 2^{2}\right) + \frac{B}{2x^{3}} + \frac{1}{8} \left(\frac{x^{2}}{x^{2}} - 3x\right)\right]$$

$$To ly dy do z = \alpha$$

$$u_{0} = \frac{\alpha}{8} x \cdot u_{0} \alpha u_{1} \qquad y = \alpha$$

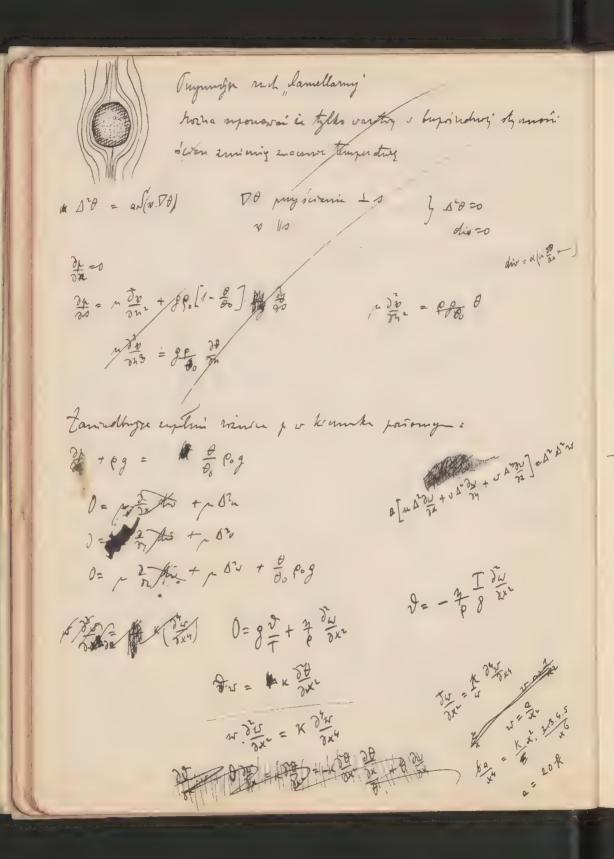
$$v_{0} = \frac{\alpha}{8} x \cdot u_{0} \alpha u_{1} \qquad y = \alpha$$

$$v_{0} = \frac{\alpha}{8} x \cdot (x \cdot y - 3)$$

Only to an operarem of I agreen: 4 30+4 to 4 50

y de la companya della companya della companya de la companya della companya dell 8 Th - 1 + = T - 1 + = T - 1 + = T - 1 + = 1 | Chocin o roman's kntIth: 10 \$ = a hold +0 90 + 50 to tavaje 12 p =0 = 4 2 + 1 2 2 2 2 2 2 2 2 か= ロシャリカル de = n du + 2 du du + v du ムヤ= サムダ+×ムサ+2選装+計計十二次 Payjampe 2 stem : N=0 n=Dy v=Dy v=Dy 11= = 2 (log 4) == 2 (log 4) U= 2 (log 4) in = + + - + [24] + (24)

Just's zetem u, v, w mayo by yroione ques toke frukty 4 2e -an= 3 (ly 4); -ar= 3, ly 4) [20= 3 (ly 4) 1400 to stange = & ghie 5 900 1 - a (" 2 + v 2 + v 2 + v 2 = 0 by drienny mile vormissamie vormanto: 2 tem suporguja i rach petersplag $div = \frac{1}{\theta} \left[u \int_{-\infty}^{\theta} t \cdot \cdot \cdot \cdot \right]$ Pry portuntini u = v = w = o dis = o $\Delta^{-1}\theta = 0$ $\frac{\partial \theta}{\partial x} = 0$ $\frac{\partial \theta}{\partial x} = 0$ 中一日。十四日的。十空間的十空間的十年前十十年前十四日間十四日間十四日間 10 m = a N v. Vθ div = { [v 20] = 20= 11 July dry pryktal: 2-400 w= u=0 It is the second of the second 1 20 = 5 Dy 3 = 1 3 2 dis 1 = /3 2 din + 1 1 + 8 0 = /3 22 dy + 1 (3x + 1/2 + 1/2) + (3g) D' = 4 D Dy + go gy Inglizerii mili 30 = 30 = note p= fo.(y) 30 =0 30 = 0,-d. v= (fog # - 2 13 + 4x2 + 6x1 c) dy = 1 (Po 0, -02 4) + 29) + 9 Po[1-



$$N = \frac{\kappa}{4} \frac{\partial \theta}{\partial x}$$

$$\frac{\partial v}{\partial x} = -\frac{\kappa}{4} \frac{\partial \theta}{\partial x} \frac{\partial \theta}{\partial x} + \frac{\kappa}{4} \frac{\partial^{3} \theta}{\partial x^{3}}$$

$$\frac{\partial v}{\partial x} = +\frac{2\kappa}{43} \left(\frac{\partial \theta}{\partial x}\right)^{2} \frac{\partial^{3} \theta}{\partial x} - \frac{\kappa}{4} \left(\frac{\partial^{2} \theta}{\partial x}\right)^{2} - \frac{2\kappa}{4} \frac{\partial^{3} \theta}{\partial x} + \frac{\kappa}{4} \frac{\partial^{3} \theta}{\partial x} + \frac{\kappa}{4} \frac{\partial^{3} \theta}{\partial x} = -\frac{2}{4} \frac{\partial^{3} \theta}{\partial x}$$

$$\frac{\partial^{3} v}{\partial x} = \frac{\partial^{3} v}{\partial x} + \frac{\partial^{3}$$

N= 2 (74) + 2' v= +0 $\frac{\partial f}{\partial z}$ = $-\frac{3}{2}$ ein φ δυ 11=0 = 1 m p x p

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 $\varphi = \theta_1 \ell$ = f2 l = 2c x φ= θ0 e = Po e cripp = 00 € cx

Theredy resin: consprant win auro D'A + a " But - ; En

methy yourse job. why straydry

I Tryftzerni: 30 = 20 = 0 of to fily) シャナッカラマの v=fe(x) A= fe.(x) 1-0 =0 $\theta = \theta_1 + (\theta_2 - \theta_1) \times$ $\frac{dr}{dy} = N \frac{dv}{dx} + g\rho \cdot \lim_{\theta \to 0} \frac{\theta}{\theta} = N \frac{dv}{dx} + g\rho \cdot \frac{\theta_2 - \theta_1}{\theta} + g\rho \cdot \frac{\theta}{\theta}$ O= Maria + g fa Oz-Oi dy = 0 dy = hi-to = 1 1 = 10 + # y 11-10 m 1.-1. = n du + gp. 82-8, x + b 1. 10 = 1 = nv + pog 02-0, x3 + 8x+c 1-10 St = P.9 2-01 St + 6 8 x=0 \ v=0 $\left[g\rho_0 - h - \frac{1}{k} \right] \frac{x^2 - \delta x^4}{2} = \mu v + \rho_0 g \frac{\theta_1 - \theta_1}{\theta_1} \frac{x^3 - x \delta^2}{6}$ 10 7 ex+ 8x + cx3 $\frac{1}{1+\log y} = \frac{1}{2} \left(\frac{1}{2$ 2 = (2 +) + PP & 0

$$\frac{1}{2x} = \frac{1}{2x} + \frac{1}{2x}$$

$$\theta = \frac{1}{9} \frac{ds}{g} \quad \frac{\partial u}{\partial x} + const$$

$$\theta = const$$

$$\partial \left[1 - \frac{1}{2} \frac{\partial s}{\partial x} + const
\right] = \frac{1}{2} \frac{\partial s}{\partial x} \quad \left[\frac{\partial u}{\partial x} + \delta x + c\right] \frac{\partial u}{\partial x} + const$$

$$\theta \left[1 - \frac{1}{2} \frac{\partial s}{\partial x} + const
\right] = \frac{1}{2} \frac{\partial s}{\partial x} \quad \left[\frac{\partial u}{\partial x} + \delta x + c\right] \frac{\partial u}{\partial x} + const$$

$$\theta \left[1 - \frac{1}{2} \frac{\partial s}{\partial x} + const
\right] = \frac{1}{2} \frac{\partial s}{\partial x} \quad \left[\frac{\partial u}{\partial x} + \delta x + c\right] \frac{\partial u}{\partial x} + const$$

$$\theta \left[1 - \frac{1}{2} \frac{\partial s}{\partial x} + const
\right] = \frac{1}{2} \frac{\partial u}{\partial x} \quad \left[\frac{\partial u}{\partial x} + \delta x + c\right] \frac{\partial u}{\partial x} + const$$

$$\theta \left[1 - \frac{1}{2} \frac{\partial s}{\partial x} + const
\right] = \frac{1}{2} \frac{\partial u}{\partial x} \quad \left[\frac{\partial u}{\partial x} + const
\right] \quad \left[\frac{\partial u}{$$

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L).

$$\rho \frac{\partial u}{\partial x} = -\frac{\partial x}{\partial x} + \nu \frac{\partial}{\partial x} \operatorname{div} + \mu \operatorname{div} = -\frac{\partial}{\partial x} + \ell \frac{\partial}{\partial x} \operatorname{div}$$

$$\frac{\partial (\rho u)}{\partial x} + \frac{\partial \rho}{\partial x} = 0$$

$$\frac{\partial \rho}{\partial x} + \nu \frac{\partial \rho}{\partial x} = 0$$

$$\frac{\partial \rho}{\partial x} + \nu \frac{\partial \rho}{\partial x} = 0$$

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30 20 +0 70 = - 5 + (v+p) 30x3) 1991

19. 32 34 +0 34 = - 3 x ot + (rty) 33 m

 $= K \frac{3}{2} + k + \frac{3}{3} \frac{1}{4} + (V + \mu) \frac{3^{3} \mu}{3^{2} + 3^{3} \mu}$

u = Mx siax+pt) et.t

The st = pro ext - y si et $y=\beta^{2}y\sin^{2}-2\beta y\cos^{2}=\frac{\alpha^{2}}{2}(y+p)$ $\beta^{2}=\alpha^{2}\alpha^{2}+\frac{\alpha^{4}\beta^{2}p^{2}}{4}$ $-\alpha^{2}\beta^{2}\sin^{2}-\alpha^{2}\beta^{2}\cos^{2}$ $-\alpha^{2}\beta^{2}\cos^{2}$ $-\alpha^{2}\beta^{2}\cos^{2}$

I).
$$\rho \frac{\partial u}{\partial t} = -\frac{\partial \dot{t}}{\partial x^{3}}$$

$$\frac{\partial \dot{t}}{\partial t} = -k_{\mu} \frac{\partial u}{\partial x} + (k_{\tau}) \frac{a}{a} \mu \left(\frac{\partial u}{\partial x}\right)^{2}$$

$$\frac{\partial \dot{t}}{\partial t} = -k_{\mu} \frac{\partial u}{\partial x} - k_{\mu} \frac{\partial u}{\partial x} + 8k_{\mu} \left(k_{\tau}\right) \frac{\partial u}{\partial x} \frac{\partial^{2} u}{\partial x^{2}}$$

Malo integrates sig

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20 x : x = a: 40

 $\frac{dx}{dt} = n = \frac{x_0}{a_0} \frac{da}{dt} \quad n = x \pm \frac{dc}{dt}$

 $\frac{\partial u}{\partial x} = \frac{1}{4} \frac{da}{dt} = 0$

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$$u = \mathcal{U}_{A} \underbrace{\mathbf{I}}_{A}$$

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$$M \frac{dx}{dt} = -\mu_0 - 2\varphi_{sg} \cdot x + \frac{\mu_0 q}{x} - \frac{4}{5} \frac{dx}{x} \frac{dx}{dt}$$

$$\frac{dx}{dt} = 2 \qquad \frac{dx}{dt} = \frac{dx}{dt} = \frac{dx}{dx} \cdot 2$$

$$M = 2 \qquad \frac{dx}{dx} + \frac{4}{3} \mu \frac{z}{x} + \frac{\mu_0 q}{x} + 2\varphi_{sg} + \frac{x}{x} + \mu_0 = 0$$

Par to an dir $= \binom{n(\frac{\partial o}{\partial x})^2 + \frac{\partial o}{\partial x^2}}{n(\frac{\partial o}{\partial x^2})^2 + \frac{\partial o}{\partial x^2}}$ p = went = # 20 + 3m = 0 30 to 34 =0 Rp 96 = / (24) + 1 10 34 + W + ky 34 = [94 (34) = + & 32](k-1) bo Sh = m Sh the u= f(t) x = x f pxx2 p = 4 1 2 2 = a 4 3 2 + kf[a+ 3/n f] = 4 f2 (k-1) A= = + = = = = M 4n of + ekf + 43 f 2=0 都学者+ 株子十十三0 = A e + 1 - of (\$) + 3-k (\$) +1 =0 -Axe + 10k [Ae + B]+1=0 a= + 3ek 0 = - 12h A - 30k A 2 - 40 K A = 4 + 4 (p.-a)

$$\rho(u_{2x}^{2x} + v_{2x}^{2x} + v_{2x}^{2x} + v_{2x}^{2x} + v_{2x}^{2x}) = -\frac{3x}{3x}$$

$$\rho(u_{2x}^{2x} + v_{2x}^{2x} + v_{2x}^{2x} + v_{2x}^{2x} + v_{2x}^{2x}) = -\frac{3x}{3x}$$

$$n = \sqrt{\frac{2}{9}} \sqrt{\frac{9}{9}} \sqrt{\frac{9}{9}} = \frac{\sqrt{9}}{9} \sqrt{\frac{2}{9}} = \frac{\sqrt{9}}{9} \sqrt{\frac{2}} = \frac{\sqrt{9}}{9} \sqrt{\frac{9}}{9} \sqrt{\frac{2}}{9} = \frac{\sqrt{9}}{9} \sqrt{\frac{2}}{9} = \frac{\sqrt{9}}{9} \sqrt{\frac{9}}{9} = \frac{\sqrt{9}}{9} = \frac{\sqrt{9}}{9}$$

$$\frac{\partial u}{\partial y} = \frac{(\delta - 2y)e}{\frac{4u}{\sqrt{u}}}$$

$$\frac{\delta u}{\sqrt{y}} = \frac{-2e}{\frac{4u}{\sqrt{u}}}$$

$$\frac{\partial x}{\partial x} = h\left(\frac{\partial x}{\partial x} + \frac{\partial x}{\partial y}\right) + \frac{\partial x}{\partial x} \frac{\partial x}{\partial x}$$

$$\frac{\delta u}{\delta x^2} + \frac{\delta u}{\delta y^2} = f(x) = f(x)$$

$$\frac{\partial}{\partial x} (\mu u) = 0$$

$$\Delta_{f}^{2} = \sqrt{\frac{3}{3}} \sqrt{\frac{3}{3}} \times \left(\frac{3}{3} \frac{1}{3} + \frac{1}{3} \frac{3}{3} \frac{3}{3} \frac{1}{3} + \frac{3}{3} \frac{3}{3} \frac{1}{3} \frac{3}{3} \frac{1}{3} \right)$$

$$= \sqrt{\frac{3}{3}} \sqrt{\frac{3}{3}} \times \left(\frac{3}{3} \frac{1}{3} + \frac{1}{3} \frac{1}{3} + \frac{1}{3} \frac{3}{3} \frac{1}{3} + \frac{3}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \right)$$

$$\frac{1}{2} = \frac{4}{13} \frac{2u}{3u} + \frac{1}{2v} = 0$$

$$\frac{2u}{3y} = -\frac{1}{2} \frac{3u}{3u} + \frac{3v}{3y}$$

$$\frac{2u}{3y} = -\frac{1}{2} \frac{3u}{3u} + \frac{3v}{3y}$$

$$\frac{2u}{3y} = -\frac{1}{2} \frac{3u}{3u} + \frac{3v}{4} = -3 \frac{2u}{7}$$

$$\frac{2u}{7} = \frac{1}{3} \frac{3u}{3u} + \frac{3v}{4} = -3 \frac{2u}{7}$$

$$\frac{2u}{7} = \frac{1}{3} \frac{3u}{3u} + \frac{3v}{4} = -3 \frac{2u}{7}$$

$$\frac{2u}{3u} = \frac{1}{3} \frac{3u}{3u} + \frac{1}{4} \frac{3u}{3u}$$

$$\frac{2u}{3u} = \frac{1}{3} \frac{3u}{3u} - \frac{9(y)}{u}$$

$$\frac{2u}{3u} = \frac{1}{3} \frac{3u}{3u} - \frac{9(y)}{u}$$

$$\frac{3u}{3u} = -\frac{1}{3} \frac{3u}{3u} - \frac{9(y)}{u}$$

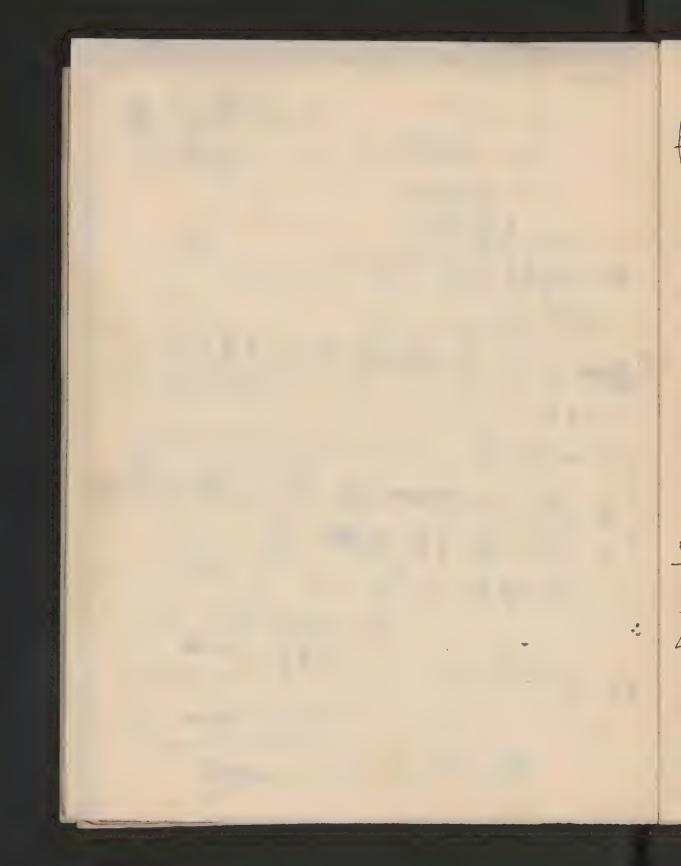
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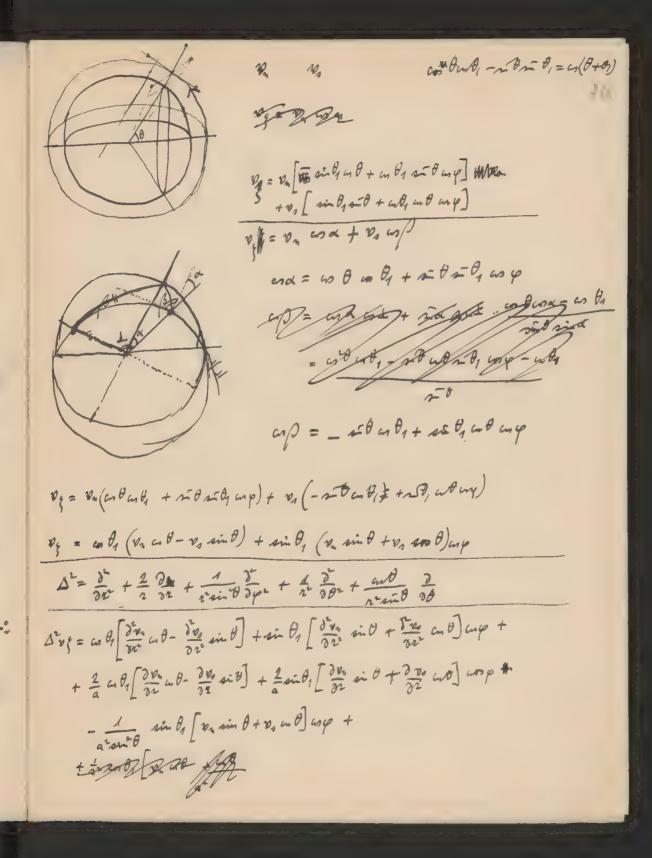
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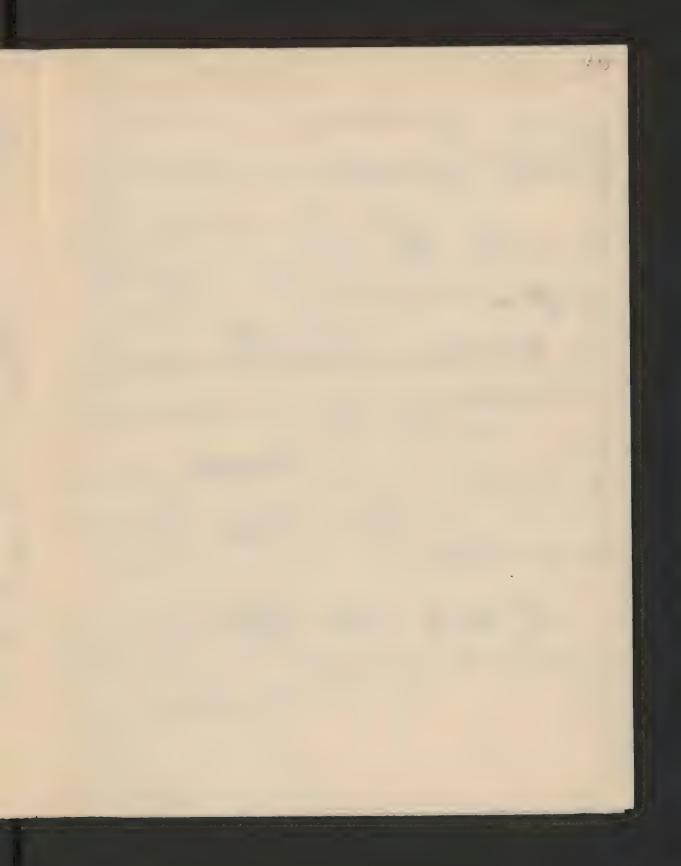
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$$\int_{0}^{2} dt dt = \int_{0}^{2} dt + \int_{0}^{2} dt + \int_{0}^{2} dt = \int_{0}^{2} dt + \int_{0}^{2} dt + \int_{0}^{2} dt = \int_{0}^{2} dt + \int_{0}^{2} dt + \int_{0}^{2} dt = \int_{0}^{2} dt + \int_{0}^{2} dt + \int_{0}^{2} dt = \int_{0}^{2} dt + \int_{0}^{2} dt + \int_{0}^{2} dt = \int_{0}^{2} dt + \int$$









$$v_{n} = -\cos\theta \left[\frac{-a^{3}}{2^{3}} \right]$$

$$\frac{\partial v_{n}}{\partial \theta} = -a\theta \frac{3e^{3}}{2^{4}}$$

$$\frac{\partial v_{n}}{\partial \theta} = +a\pi\theta \left[\frac{-a^{2}}{2^{3}} \right]$$

$$\frac{\partial v_{n}}{\partial \theta} = +a\pi\theta \left[\frac{1-a^{2}}{a^{2}} \right]$$

$$\frac{\partial v_{n}}{\partial \theta} = +a\pi\theta \left[\frac{1-a^{2}}{a^{2}} \right]$$

$$\frac{\partial v_{n}}{\partial \theta} = +a\pi\theta \left[\frac{1-a^{2}}{a^{2}} \right]$$

$$\frac{\partial^{2}v_{n}}{\partial \theta} = -a\pi\theta \left[\frac{1-a^{2}}{a^{2}} \right]$$

$$\frac{\partial$$

$$\frac{\cos\theta_{1}}{2\theta} \left[\frac{\partial v_{1}}{\partial \theta} \cos\theta - \frac{\partial v_{2}}{\partial \theta} \cos\theta \right] + a''\theta_{1} \left[\frac{\partial v_{1}}{\partial \theta} \cos\theta + \frac{\partial v_{2}}{\partial \theta} \cos\theta \right] \cos\theta$$

$$\frac{\cos\theta_{1}}{a'} \left[\frac{\partial v_{1}}{\partial \theta} \left(\frac{\omega^{2}}{2} + \sin^{2}\theta \cos\phi \right) - \frac{\partial v_{2}}{\partial \theta} \left(1 - \cos\phi \right) \sin\theta, \quad \frac{\omega}{2} v_{2} \cos\theta \right] \cos\theta$$

$$\frac{\cos\theta_{1}}{a'} \left[\frac{\partial v_{1}}{\partial \theta} \cos\theta - \frac{\partial v_{2}}{\partial \theta} \cos\theta \right] + a'''\theta_{1} \cos\theta + \frac{\partial^{2}v_{1}}{\partial \theta} \cos\theta + \frac{\partial^{2}v_{2}}{\partial \theta} \cos\theta$$

$$-2 \frac{\partial v_{1}}{\partial \theta} \sin\theta - 2 \frac{\partial v_{2}}{\partial \theta} \cos\theta$$

$$-2 \frac{\partial v_{1}}{\partial \theta} \sin\theta - 2 \frac{\partial v_{2}}{\partial \theta} \cos\theta$$

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$$\Delta^{2} \eta_{1}^{2} = \frac{3^{2} \eta_{1}}{6^{2} \pi^{2}} + \frac{1}{4} \frac{3^{2} \eta_{$$

新春= ハアル + 元· 六 P(ま+)+いますりますかます です= トアンナ fre 紫 第=ルアンナチの元 1[p=+ = ly(ax=-b)] = = [p=-p=+ = ly(ap=-b)] = + = [p,2+ = 3(ap=-b)] p2-pi b by apie = [pi-pi+ & by api-6] = $2n\int \rho y \int \rho y dx = \frac{2n}{2} \int \frac{1}{4} \rho x dx$ (20) r dr [to - (5-2)2 (1-4)2] (2-52) to to [12/1, + &] (0/2-6) hy(ap2-6) = hy ap2+ hy(1- = by(ap2) - be 12 = y 5 y y c 2

15 n y (0-9x) Harboras Ru Pox = Rodu = 30 (228) 62 Ro c2(12-52) = (45-42)c2 16 m / 73/ 16 n (2 - cx)2 4 n (0 - cx) $\int \frac{\partial u}{\partial x} \cdot u \, n \, dx = \frac{x^2 \, \delta^2 \cdot e^3}{(a - c \, x)^2}$ 1 1 1 2 (1 2 5 4) 2 c3 | 2 d2 Sandr = K SO chr-sych



